VEGETATION OF MOIST ROCK CREVICES AND MOIST (SLOPE) DEBRIS IN THE LIŠČAK GORGE (BAČA VALLEY, JULIAN ALPS)

VEGETACIJA VLAŽNIH SKALNIH RAZPOK IN VLAŽNEGA POBOČNEGA GRUŠČA V GRAPI LIŠČAKA (BAŠKA DOLINA, JULIJSKE ALPE)

In memory of Prof. Stanko Buser (1932-2006) / V spomin prof. Stanku Buserju (1932-2006)

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ABSTRACT

Vegetation of moist rock crevices and moist (slope) debris in the Liščak gorge (Bača Valley, Julian Alps)

We studied the phytosociology of communities of moist rock crevices and slope debris in the Liščak gorge in the southern Julian Alps. Based on the relevés from this and several other gorges in the Julian Alps and their foothills we described new associations *Violo biflorae-Astrantietum carniolicae*, *Palustriello commutati-Astrantietum carniolicae*, *Veronico urticifoliae-Violetum biflorae*, *Palustriello commutati-Veronicetum urticifoliae*, *Veronico urticifolia-Saxifragetum cuneifolii*, *Calamagrostio variae-Asteretum bellidiastri* and *Lamio orvalae-Lunarietum redivivae*, and a new alliance *Astrantio carniolicae-Paederotion luteae*.

Key words: vegetation, *Asplenietea trichomanis*, *Arunco-Petasition albi, Lamio orvalae-Sambucetum nigrae,* Natura 2000, Slovenia

IZVLEČEK

Vegetacija vlažnih skalnih razpok in vlažnega pobočnega grušča v grapi Liščak (Baška dolina, Julijske Alpe)

Fitocenološko smo proučili združbe vlažnih skalnih razpok in pobočnega grušča v grapi Liščak v južnih Julijskih Alpah. Na podlagi popisov iz te grape in iz nekaterih drugih grap v Julijskih Alpah s prigorjem smo opisali nove asociacije *Violo biflorae-Astrantietum carniolicae*, *Palustriello commutati-Astrantietum carniolicae*, *Veronico urticifoliae-Violetum biflorae*, *Palustriello commutati-Veronicetum urticifoliae*, *Veronico urticifolia-Saxifragetum cuneifolii*, *Calamagrostio variae-Asteretum bellidiastri* in *Lamio orvalae-Lunarietum redivivae* ter novo zvezo *Astrantio carniolicae-Paederotion luteae*.

Ključne besede: vegetacija, *Asplenietea trichomanis*, *Arunco-Petasition albi, Lamio orvalae-Sambucetum nigrae,* Natura 2000, Slovenija

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1 INTRODUCTION

The Liščak is an about 3-km-long creek in the Kneška Grapa gorge and the Bača Valley in the southern Julian Alps. It starts at the elevation of around 1000 m under Mt. Ploha (1270 m) in the Tolmin–Bohinj range and flows into the Kneža river at 331 m a.s.l. At the straight line distance of around 2500 m it overcomes an almost 700 m difference in height. Numerous tributaries flow into the stream from both banks at an even steeper gradient than that of the main gorge, which is very narrow, with only a few small expansions where gravel and debris accummulate. The geological bedrock is extremely diverse, consisting of dolomite, limestone, chert, marlstone and claystone (Buser 1986, 1987). As it faces southeast, the climate is relatively warm and humid, with an annual precipitation average of above 2000 mm (Zupančič 1998) and the mean annual temperature of around 7–8 °C (Cegnar 1998).

Around 90% of the land cover in the Liščak basin (3.42 km^2) is forest. The largest forest stand areas are classified into the following associations: *Seslerio autumnalis-Fagetum, Lamio orvalae-Fagetum, Saxifrago cuneifolii-Fagetum, Fraxino orni-Ostryetum* and *Veratro nigri-Fraxinetum excelsioris.*

Not a single house in the entire Liščak basin is inhabited anymore; there are still remains of old mills, but no artificial barriers or other direct human impact. Because of numerous geological and geomorphological specifics the stream and its gorge are protected as a valuable natural feature of regional or local importance (Rojšek 1986, 1991, https://www.naravovarstveni-atlas.si/web/DefaultNvaPublic.aspx.).

Our first investigations into the vegetation of the Liščak basin date back to 1986 – 1988. After a longer period we revisited the gorge in 2015 and subsequently, mainly in 2018, 2019, 2020 and 2021, we made more than 200 phytosociological and floristic relevés, some of them also under the guidance and assistance of Peter Razpet. An overall description of flora and forest vegetation will be the subject of another paper. Here, we focus exclusively on the vegetation of moist rock crevices and tall herbs on moist slope debris (Figure 1).

2 METHODS

Our relevés were made using the Central-European phytosociological approach (Braun-Blanquet 1964) and entered into the FloVegSi database (T. Seliškar, Vreš & A. Seliškar 2003). We collected mosses and liverworts, which Andrej Martinčič, the co-author, determined in the laboratory. The relevés in Tables 1–13 were processed using hierarchical classification, unweighted average linkage method – UPGMA and Wishart's similarity ratio. We transformed the combined cover-abundance values into ordinal scale (1–9) according to van der Maarel (1979). Numerical comparisons were performed with the SYN-TAX 2000 program package (Podani 2001). Our aim was to classify the relevés from Liščak and its immediate vicinity (Velike Luti) into a syntaxonomic system with previously described communities. As this was not always possible, some of our tables include relevés from other gorges in western and northwestern Slovenia, where we recently studied chasmophytic vegetation (Dakskobler et al. 2021, Dakskobler & Martinčič 2020, 2021a). This served as the basis for our description of several new associations. Most of the communities of moist rock crevices in the submontane and montane belt in the Julian Alps and their foothills are dominated by vascular plants *Pinguicula alpina, Astrantia carniolica*, *Viola biflora, Aster bellidiastrum, Veronica urticifolia, Valeriana tripteris, V. saxatilis*, *Saxifraga cuneifolia, Saxifraga aizoides, Asplenium viride, A. trichomanes*, and mosses and liverworts *Orthothecium rufescens, Palustriella commutata, Hymenostylium recurvirostrum* and *Conocephalum conicum*. Despite considerable floristic similarity they cannot be classified into a single association. In our descriptions of new communities at the rank of association we therefore took into account the constancy and medium cover of the dominant species in our relevés, because this is the key trait that allows us to identify these communities also in the field. We apply the same criteria for certain meadow, shrub and forest communities, where the dominant species of the highest stand layer determines into which association a community is classified.

In the classification of species into phytosociological groups (groups of diagnostic species) we mainly refer to the Flora alpina (Aeschimann et al. 2004a,b), but rely also on our own experience. The nomenclatural sources for the names of vascular plants were the Mala flora Slovenije (Martinčič et al. 2007) and the FloVegSi database. Hodgetts et al. (2020) was the nomenclatural source for the names of mosses and liverworts. Šilc & Čarni (2012), Mucina et al. (2016) and

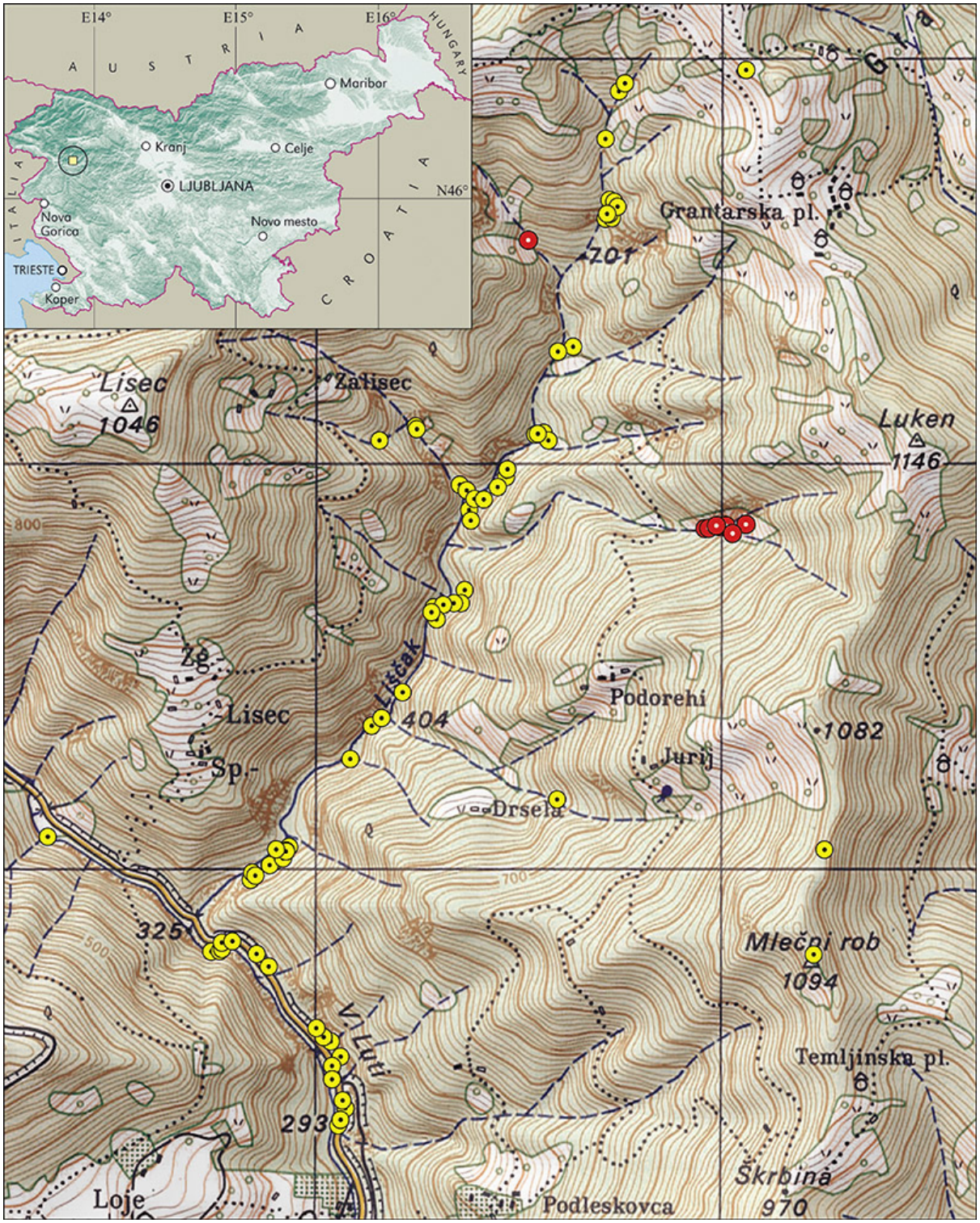

Figure 1: Approximate localities of relevés of moist rock crevices and slope debris in the basin of Liščak and its immediate surroundings (the stands of the subassociation Campanulo cespitosae-Saxifragetum aizoidis achnatheretosum calamagrostis are coloured in red).
Slika 1: Približna nahajališča fitocenoloških popisov združb vlažnih skalnih razpok in pobočnega grušča v povodju Liščaka in njegovi neposredni soseščini (z rdečo so pobarvani sestoji subasociacije Campanulo cespitosae-Saxifragetum aizoidis achnatheretosum calamagrostis).

Dakskobler & Martinčič (2020) served as nomenclatural sources for the names of the syntaxa. Geographic coordinates of relevés are determined according to the Slovenian geographic coordinate system D 48 (zone 5) based on Gauss-Krüger projection and the Bessel ellipsoid.

3 RESULTS AND DISCUSION

3.1 Moist rock crevice communities with dominant *Pinguicula alpina* and (or) *Astrantia carniolica*

Based on their floristic similarity the phytosociological relevés of moist rock crevices in Liščak grouped into several clusters (Figure 2) in which we identified several communities.

Table 1 comprises 13 relevés with dominant vascular plant *Pinguicula alpina* and mosses *Palustriella commutata* and *Hymenostylium recurvirostrum* that can be classified into the association *Astrantio carniolicae-Pinguiculetum alpinae*. Its diagnostic species are *Pinguicula alpina, Astrantia carniolica, Hymenostylium recurvirostrum*, *Palustriella commutata* and *Petasites paradoxus*. We recently published a more detailed description of this association (Dakskobler & Martinčič 2020). Stands from the Liščak and its vicinity (downstream from the confluence of the Liščak and Kneža / Knešca – Velike Luti) are very similar to the stands from other areas in the Soča Valley, but possibly occur at slightly higher elevations, from 300 m to 620 m a.s.l. They are classified into the new variant with *Calamagrostis varia*. The geological bedrock is dolomite with chert and limestone with chert and (or) marlstone, and the aspect is predominantly sunny.

In the relevé cluster on the left side of the dendrogram in Figure 2 the dominant vascular plant was *Astrantia carniolica* and the dominant mosses were *Palustriella commutata* and *Hymenostylium recurvirostre*. *Pingicula alpina* occurs in only a few relevés and has low medium cover, so these stands (Table 3) do not belong to the previously described association. Slightly

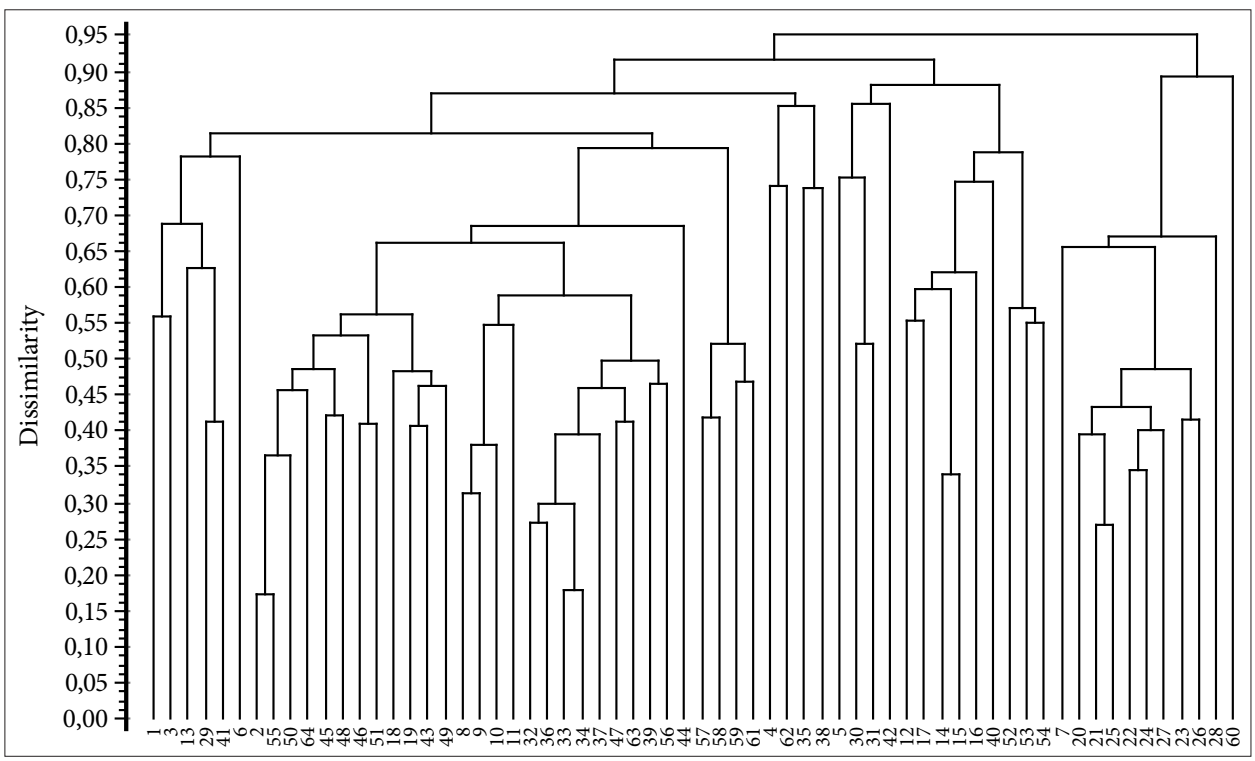

Figure 2: Dendrogram of relevés of moist rock crevices in the Liščak gorge and its immediate vicinity (UPGMA, 1-similarity ratio).
Slika 2: Dendrogram popisov vlažnih skalnih razpok v grapi Liščak in njeni okolici (UPGMA, 1-similarity ratio).

similar communities of moist rock crevices in the pre-Alpine and Dinaric phytogeographical region were classified into the association *Astrantio carniolicae-Primuletum carniolicae*. Almost as a rule, the dominant species was *Primula carniolica*, which has no known localities in the southern Julian Alps (Dakskobler & Martinčič 2020).

To facilitate classification of these relevés into the syntaxonomical system we made another table with the relevés with dominant vascular plant *Astrantia carniolica* from other regions in the Julian Alps. In part, we discussed these communities in recently published articles (Dakskobler et al. 2021, Dakskobler & Martinčič 2021a) and concluded that they cannot be classified into the association *Astrantio-Pinguiculetum* nor into the association *Astrantio-Primuletum carniolicae*.

Table 2 comprises 18 relevés with species composition that is significantly different from the species composition of the Liščak relevés (Table 3), because their localities have a much larger altitudinal range. *Viola biflora* is very common in these relevés, but as it is not dominant in most of the relevés and therefore does not meet this criterion to be able to serve as the name-giving species of the association (*Violetum biflorae*), but it can be used in name of it, as *Violo biflorae-Astrantietum carniolicae*. It comprises the relevés of moist rock crevices with dominant *Astrantia carniolica* that cannot be classified into associations *Astrantio-Pinguiculetum alpinae* or *Astrantio-Primuletum carniolicae*. Its diagnostic species are *Astrantia carniolica, Viola biflora, Paederota lutea, Carex brachystachys, Adenostyles glabra,* and *Heliosperma pusillum*. The nomenclatural type of the new association, *holotypus,* is relevé 3 in Table 2. We distinguish four variants: var. *Palustriella commutata*, var. *Rhodothamnus chamaecistus,* var. *typica* and var. *Viola biflora*. The latter comprises the last three relevés in Table 2, which show similarity with stands of the association *Veronico urticifoliae-Violetum biflorae*, which will be presented in more detail below. The elevation of relevés of this association spans 540 m to 1350 m (submontane-altimontane belt), the geological bedrock is dolomite or limestone, and the aspect of their localities (Figure 3) is almost always shady.

Compared to the stands in Table 2 stands in Table 3 occur at lower elevations (300–785 m), and are characterised by the absence of certain subalpine-alpine species, including montane-(sub) alpine species *Viola biflora* and *Heliosperma pusillum*. According to domi-

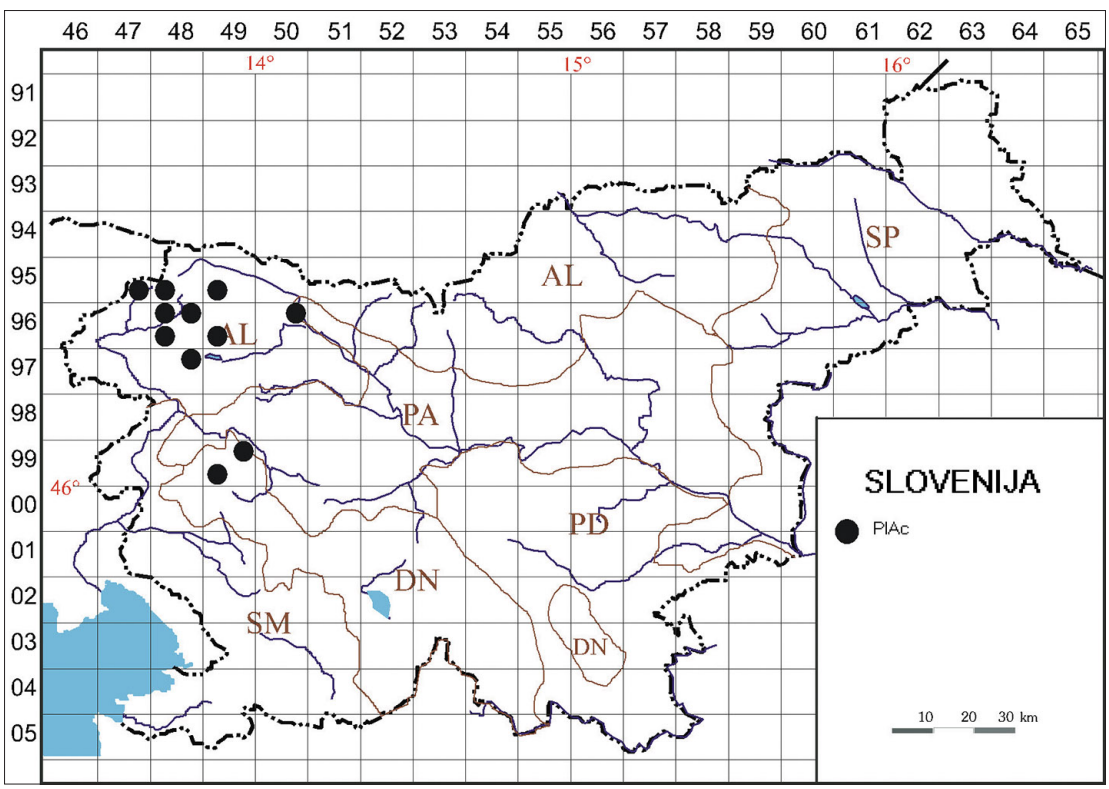

Figure 3: Localities of stands of the association Violo biflorae-Astrantietum carniolicae
Slika 3: Nahajališča sestojev subasociacije Violo biflorae-Astrantietum carniolicae

nant species and results of hierarchical classification (Table 11, Figure 10), we classify this stands into the new association *Palustriello commutati-Astrantietum carniolicae* ass. nov. hoc loco. Its nomenclatural type, *holotypus*, is relevé 14 in Table 3. The species composition of relevés 1–4 is different, so they are for now classified into the variant *Palustriello-Astrantietum carniolicae* var. *Carex mucronata*. Its differential species are *Carex mucronata, Aster bellidiastrum, Hydrogonium croceum* (*Barbula crocea*) and *Valeriana saxatilis*. The locality of these relevés is the right bank of the Kneža downstream of the confluence with the Liščak, at the beginning of the ravine of Velike Luti; the geological bedrock is dolomite with chert and the aspect is distinctly shady; the average elevation is 320 m. In the stands of this variant we collected and determined also two relatively rare moss species. *Trichostomum crispulum* is a meridional-temperate species of which we have relatively limited recent data for Slovenia (Martinčič 2018: 58). *Microlejeunea ulicina* is distributed mainly in North America, North Africa, the Mediterranean and western Europe to Norway. It occurs mainly on tree bark and decaying wood on very airy, moist areas. In Slovenia it is red-listed as vulnerable (Martinčič 2016: 109).

Other relevés in Table 3 belong to the typical variant *Palustriello-Astrantietum carniolicae* var. *typica* and their stands are characterised by abundant occurrence of *Palustriella commutata* and *Hymenostylium recurvirostre*. The elevation of the relevés is 300 m to 785 m, the aspect is shady and sunny, the geological bedrock is predominantly limestone with admixture of marlstone and chert.

3.2 Moist rock crevice communities with dominant *Veronica urticifolia, Saxifraga cuneifolia* or *S. aizoides*

Table 4 comprises communities of moist rocks in the Liščak gorge in which *Pinguicula alpina* or *Astrantia carniolica* are either absent or non-dominant, but the moss layer is very rich. These stands are classified into the new association *Palustriello commutati-Veronicetum urticifoliae*. Its nomenclatural type, *holotypus*, is relevé 1 in Table 4. The diagnostic species of the association are *Palustriella comutata*, *Conocephalum conicum*, *Veronica urticifolia*, *Asplenium trichomanes, Galeobdolon flavidum* and *Senecio ovatus*. The elevation of the relevés spans 350 m to 950 m, the geological bed-

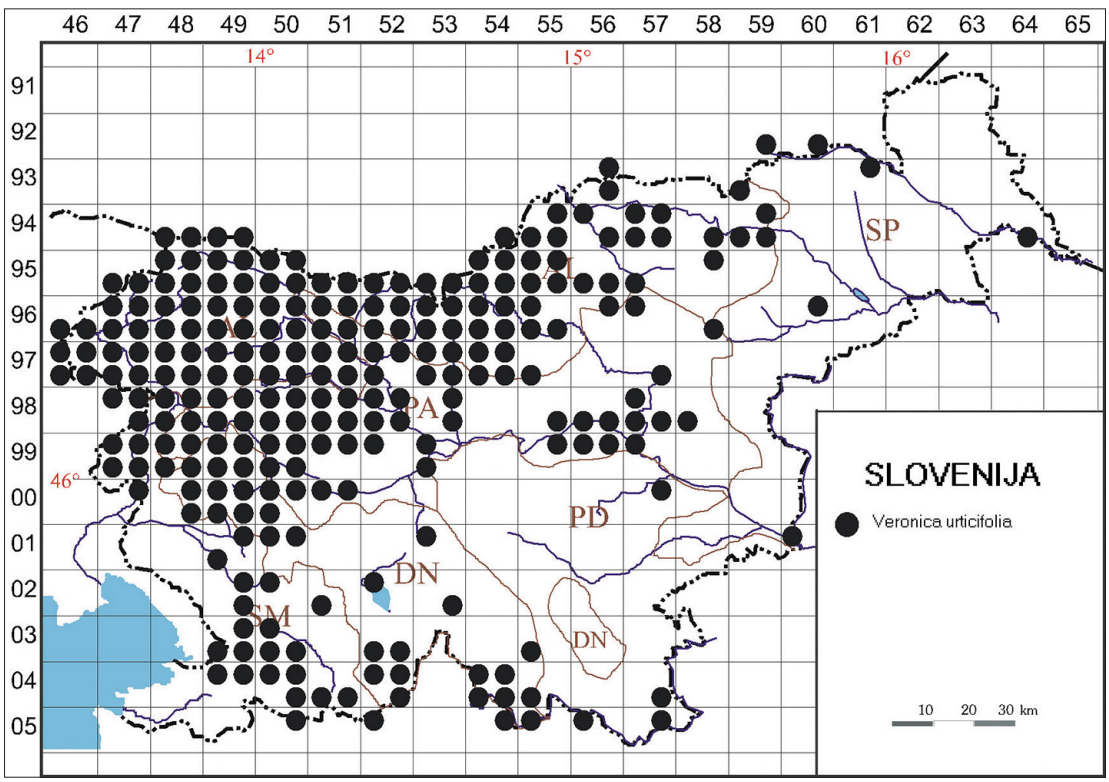

Figure 4: Distribution of Veronica urticifolia in Slovenia (FloVegSi database)
Slika 4: Razširjenost vrste Veronica urticifolia v Sloveniji po podatkih baze FloVegSi

rock is mixed, composed of limestone, marlstone and chert, in places also claystone; the aspect is predominantly shady.

Veronica urticifolia is a south-European montane species, a character species of the suballiance *Abieti-Piceenion* (Aeschimann et al. 2004b: 216). In Slovenia it is widespread in most submontane-montane-subalpine areas. It occurs in many forest, especially spruce and beech as well noble hardwood communities. Its sites are often shady and slightly moist rocks, both calcareous and non-calcareous, and in the broadest sense it can be considered also a character species of communities of moist rock crevices.

Stands of the association *Palustriello commutati-Veronicetum urticifoliae* characteristically occur in a distinctly forested environment and their species composition therefore comprises a good number of character species of alliances *Tilio-Acerion, Aremonio-Fagion* and order *Fagetalia sylvaticae,* i.e. species that are frequent in the surrounding forest communities. Table 4 also includes an additional relevé with an exclusively moss community, which is provisionally classified into the association *Cratoneuretum commutati.*

Table 5 comprises stands classified into the recently described association *Campanulo cespitosae-Saxifragetum aizoidis* (Dakskobler & Martinčič 2020). It is characterised by the occurrence of the subalpine-alpine species *Saxifraga aizoides*, a character species of spring communities (*Montio-Cardaminetea*) in the moist shady rocks in gorges of the submontane and lower montane belt. The diagnostic species of the association are *Saxifraga aizoides, Campanula cespitosa, Molinia arundinacea, Palustriella commutata, Calamagrostis varia* and *Marchantia quadrata* (*Preissia quadrata).* But for the last (*Marchantia quadrata*) the relevés from the Liščak gorge comprise all of the listed species. Their ecology, however, is different. They were found at elevations spanning 725 m to 785 m, the geological bedrock is mainly limestone with admixture of claystone and chert, and the aspect is generally sunny. This is a distinctly erosion area (the nearest toponym is Pod Jamo) next to the Luknova Grapa gorge (this gorge starts under Mt. Luken and flows into the Liščak at Sopota). One relevé is from the right bank of the Liščak, the locality is at the Gradnikova Grapa gorge (under Mt. Gradnik), also in an erosion area, where the bedrock consists of limestone, marlstone and chert (see Figure 1). The sites are characterised by unconsolidated rock, with rock fragments that are not solid, but broken, loose and slightly moist. The species composition shows

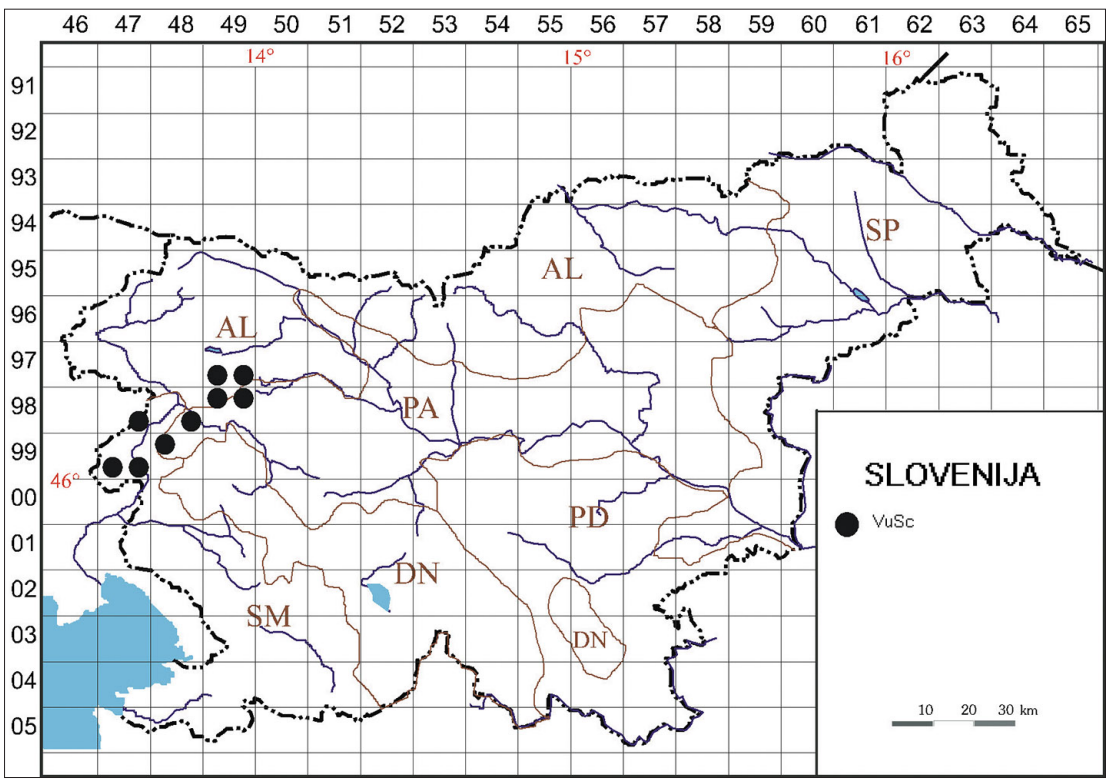

Figure 5: Approximate localities of stands of the association Veronico urticifoliae-Saxifragetum cuneifolii on the map of Slovenia
Slika 5: Približna nahajališča sestojev asociacije Veronico urticifoliae-Saxifragetum cuneifolii na zemljevidu Slovenije

a good share of character species of screes and dry grasslands. These relevés can undoubtedly be classified into a new, drier form of this community, into the subassociation *Campanulo-Saxifragetum aizoidis achnatheretosum calamagrostis*. Its differential species are *Achnatherum calamagrostis*, *Tortella tortuosa*, *Saxifraga crustata*, *Hieracium glaucum* and *Calamintha einseleana*, which are good indicators of these site conditions on still slightly moist, debris covered, predominantly sunny rocks. The nomenclatural type of the new subassociation, *holotypus*, is relevé 5 in Table 5.

Table 6 comprises relevés of slightly moist, shady rock crevices in the forest belt, where *Saxifraga cuneifolia* occurs, whereas the previously discussed dominant species of moist rocks (except for *Veronica urticifolia*) are usually absent. *Saxifraga cuneifolia* frequently occurs in stony, shady, montane spruce, beech and fir-beech forests. Such stands were found also in the gorge of the Liščak, but our table comprises also similar relevés from other areas. Their approximate localities are shown in Figure 5.

These stands are classified into the new association *Veronico urticifoliae-Saxifragetum cuneifolii*. Its diagnostic species are *Saxifraga cuneifolia*, *Veronica urticifolia*, *Asplenium trichomanes*, *Exertotheca crispa* (*Neckera crispa*) and *Valeriana tripteris*. The nomenclatural type, *holotypus*, of the new association is relevé 5 in Table 6.

The distribution and sites of the south-European montane species *Saxifraga cuneifolia* in Slovenia was described in detail several years ago (Dakskobler 2015). Its distribution is very similar to the distribution of *Veronica urticifolia*, which is also a character species of spruce forests; they occur on similar sites and frequently in the same communities, including communities of shady rocks on mixed calcareous-silicate bedrock. Stands of the association *Veronico urticifoliae-Saxifragetum cuneifolii* are slightly similar to the stands of the association *Palustriello-Veronicetum urticifoliae*, but the latter have a very different composition and medium coverage of the moss layer. The elevation of the localities ranges between 150 m and 1060 m, and the geological bedrock is varied as well: limestone, claystone, marlstone, limestone with chert and marl, rarely also dolomite and breccia. Stands of this association were found on all, albeit predominantly shady aspects. Most of the localities are situated in gorges and depressions in the beech belt. This is reflected also in the species composition, which features a number of companion species characteristic for beech, maple, beech-oak and spruce forests. We distinguish two variants: var. *typica*, which has no special differential species, and var. *Galeobdolon flavidum* (its differential species include *Fissidens dubius* and *Phyllitis scolopendrium*), which characterises slightly moister rocks with more moss species and more companion species of beech forests.

3.3 Moist rock crevice communities with dominant *Aster bellidiastrum* and (or) *Viola biflora*

The south-European montane species *Aster bellidiastrum* is a character species of subalpine-alpine calcareous grasslands from the class *Elyno-Seslerietea* (Aeschimann et al. 2004b: 432), but frequently occurs also in communities of moist rock crevices (Dakskobler & Martinčič 2020), including those that we have already described or those that we are to describe herein: *Astrantio-Pinguiculetum alpinae*, *Paederoto luteae-Astrantietum carniolicae, Campanulo cespitosae-Saxifragetum aizoidis* and *Veronico urticifoliae-Violetum biflorae*. Table 7 comprises the phytosociological relevés (including a few relevés from the Liščak gorge) in which this species is the dominant vascular plant. Most of these relevés were made on riparian rocks that are periodically exposed to water from creeks or the river, in part also on rock walls next to watercourses in gorges and ravines, some also outside the pre-Alpine–Alpine region (Figures 6 and 7).

Stands in Table 7 are classified into the new association *Calamagrostio variae-Asteretum bellidiastri* ass. nov. hoc loco. Its diagnostic species are *Aster bellidiastrum* and *Calamagrostis varia*, the only vascular plants with a constancy of more than 50% in 28 relevés; their counterparts among mosses are *Ctenidium molluscum* and *Tortella tortuosa*.

The nomenclatural type, *holotypus*, of the new association is relevé 7 in Table 7. We distinguish two variants, var. *Brachythecium rivulare* (differential species include other hygrophilous mosses: *Hygrohypnum luridum, Didymodon spadiceus*, *Pedinophyllum interruptum, Plagiumnium rostratum,* and *Veronica urticifolia* among vascular plants) on slightly moister sites, and var. *Tortella tortuosa* on slightly drier sites. Within this variant (Table 7) we can exclude the subvariant with *Sesleria caerulea* and the subvariant with *Petasites paradoxus*. One of the characteristics of the stands of this association is a substantial number of so-called accidental species, which occur due to the position of their sites near watercourses. Here we determined altogether 138 species, more than in any other discussed chasmophytic community. Due to the immediate vicinity of watercourses they become colonised by plants that are otherwise characteristic for forest, grassland and ruderal communities. However, none of these species on

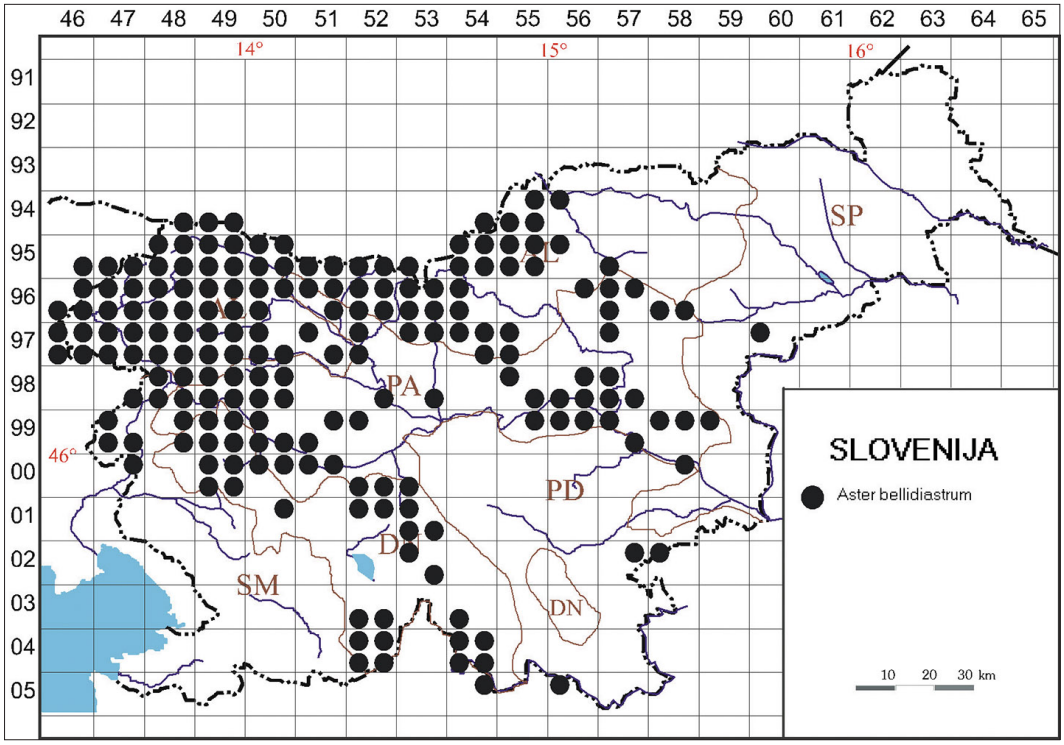

Figure 6: Distribution of Aster bellidiastrum in Slovenia (FloVegSi database).
Slika 6: Razširjenost vrste Aster bellidiastrum v Sloveniji po podatkih v bazi FloVegSi.

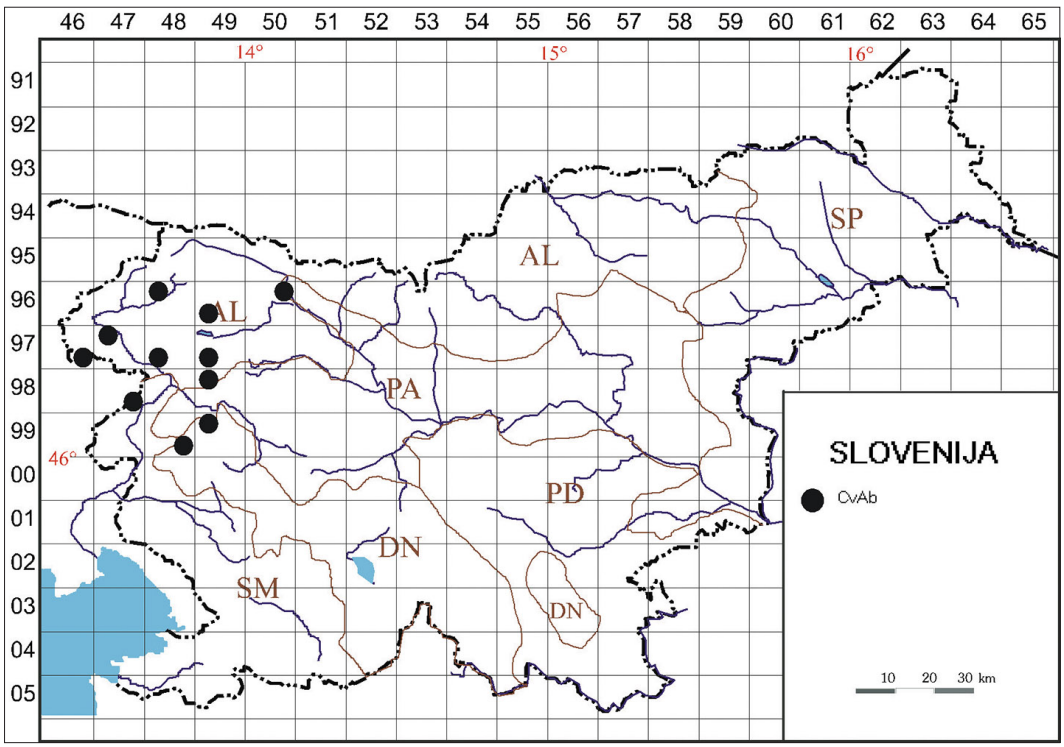

Figure 7: Localities of stands of the association Calamagrostio variae-Asteretum bellidiastri on the map of Slovenia.
Slika 7: Nahajališča sestojev asociacije Calamagrostio variae-Asteretum bellidiastri na zemljevidu Slovenije.

these riparian rocks has a high frequency and they were recorded only on one or a few relevés. The elevation of the localities ranges from 235 m (at Bača under the hamlet of Slatne) to 780 m (Gačnik in Trebuša) or 785 m (under the Sopot waterfall in Liščak). The geological bedrock is limestone, dolomite, limestone or dolomite with chert, in places also with marl, rarely breccia or conglomerate. Several localities have both a shady and sunny aspect. In the stands of this association we collected and determined also two, relatively rare moss species, namely *Trichostomum crispulum* (on riparian rocks by the Bača River under the hamlet of Slatne, quadrant 9849/1) and *Palustriella decipiens* (riparian rocks by the Soča River at Srpenica, at 315 m a.s.l., which is one of the lowland localities of this species, otherwise distributed mainly in the subalpine-alpine belt – comp. Dakskobler & Martinčič 2021b: 63).

Viola biflora is an Arctic-alpine species, a character species of the class *Betulo-Alnetea viridis* (Aeschimann et al. 2004a: 441). Its distribution in Slovenia is very similar to the distribution of *Aster bellidiastrum* (Figure 8).

It is relatively frequent in communities of moist rock crevices (Dakskobler & Martinčič 2020), in our case mainly in the stands of the association *Violo biflorae-Astrantietum carniolicae*. In Table 8 we arranged the relevés of moist rock crevices and rock shelters, where this species is the dominant vascular plant in terms of constancy and medium coverage. Thus it can serve as the name-giving species and these stands are therefore classified into the new association *Veronico urticifoliae-Violetum biflorae*. Its diagnostic species are *Viola biflora, Veronica urticifolia* and *Conocephalum conicum*. The nomenclatural type of the new association, *holotypus*, is relevé 11 in Table 8. Even though there are some differences between the relevés in this table, it would be difficult to describe them at the rank of lower synsystematic units. Relevés 12–15 are classified into the variant with *Astrantia carniolica* and show certain similarity with the stands of the variant *Violo biflorae-Astrantietum carniolicae* var. *Viola biflora*. The second variant, evident from Table 8, is the variant with *Palustriella commutata* (relevés 16–25 in Table 8). Within this variant relevés 18 and 19 in Table 8 could be treated as the subvariant with *Primula auricula*. In our paper on the vegetation of the Prodar Gorge (Dakskobler & Martinčič 2021) we classified these two relevés into the provisional association *Primulo auriculae-Violetum biflorae*. As a valid description of such an association would require more relevés,

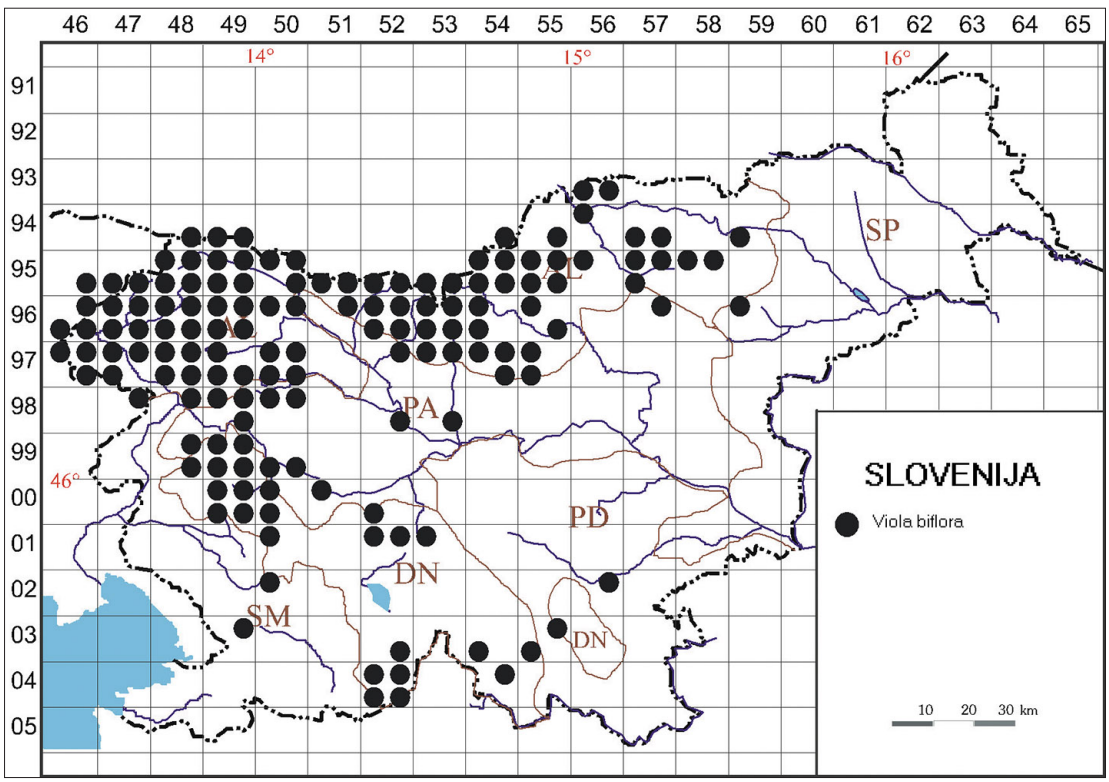

Figure 8: Distribution of Viola biflora in Slovenia (FloVegSi database).
Slika 8: Razširjenost vrste Viola biflora v Sloveniji po podatkih v bazi FloVegSi.

we provisionally assign these relevés to the association *Veronico-Violetum biflorae*. Other relevés in Table 9 are classified into the variant *typica*.

We did not find the localities of *Viola biflora* in the Liščak gorge, nor did we find localities of the stands of this association, which are otherwise common to the Vintgar Gorge at Podhom (Dakskobler et al. 2021). Approximate localities of these stands are shown in Figure 9. They were found at elevations ranging from 210 m (the Idrijca valley at Stopnik) to 1000 m (Curk Waterfall under Mt. Krn), most often on dolomite as well as on dolomite with chert, limestone, limestone with chert and (or) marlstone, even on rock debris. Most localities have a shady aspect.

Table 9 comprises ten phytosociological relevés that grouped separately from the relevés of the association *Veronico-Violetum biflorae* (in hierarchical classification) and cannot be classified into this association. Due to the insufficient number of relevés and their considerable diversity they are classified into only provisionally described syntaxa. Relevés 1–9 in Table 9 are provisionally classified into the association *Paederoto luteae-Violetum biflorae* nom. prov. Its diagnostic species are *Viola biflora* and *Paederota lutea*. Relevés 1–4 in this Table (we made them at the Curk Waterfall by the Kozjak stream under Mt. Krnčica) are classified into the variant with *Trisetum argenteum*. Its differential species include *Saxifraga aizoides* and *Marchantia quadrata* (*Preissia quadrata*). Relevé 5 (from the Kozijska Grapa gorge in the Trebuša Valley) is classified into the variant with *Saxifraga rotundifolia*. Relevés 6 and 7 (the first was made under Mt. Mangart and the second in the forest reserve Apica above Zapoden) are classified into the variant with *Cystopteris fragilis* (its differential species is also *Conocephalum conicum*). Relevé 8 from Gozdec in the Kanin Mountains is classified into the variant with *Campanula carnica* (its differential species is also *Cyclamen purpurascens*) and relevé 9 (from the Lopučnica valley) into the variant with *Saxifraga sedoides* (its differential species include *Cystopteris montana* and *Heliosperma pusillum*). With its full floristic composition relevé 10 stands out the most from other relevés with dominant *Viola biflora*. It was made by a small concavity under Mt. Mangart. It is provisionally classified into the association *Cerastio subtriflorae-Violetum biflorae* nom. prov. Its diagnostic species are *Viola biflora*, *Cerastium subtriflorum*, *Festuca nitida*, *Doronicum glaciale* and *Sanonia uncinata*.

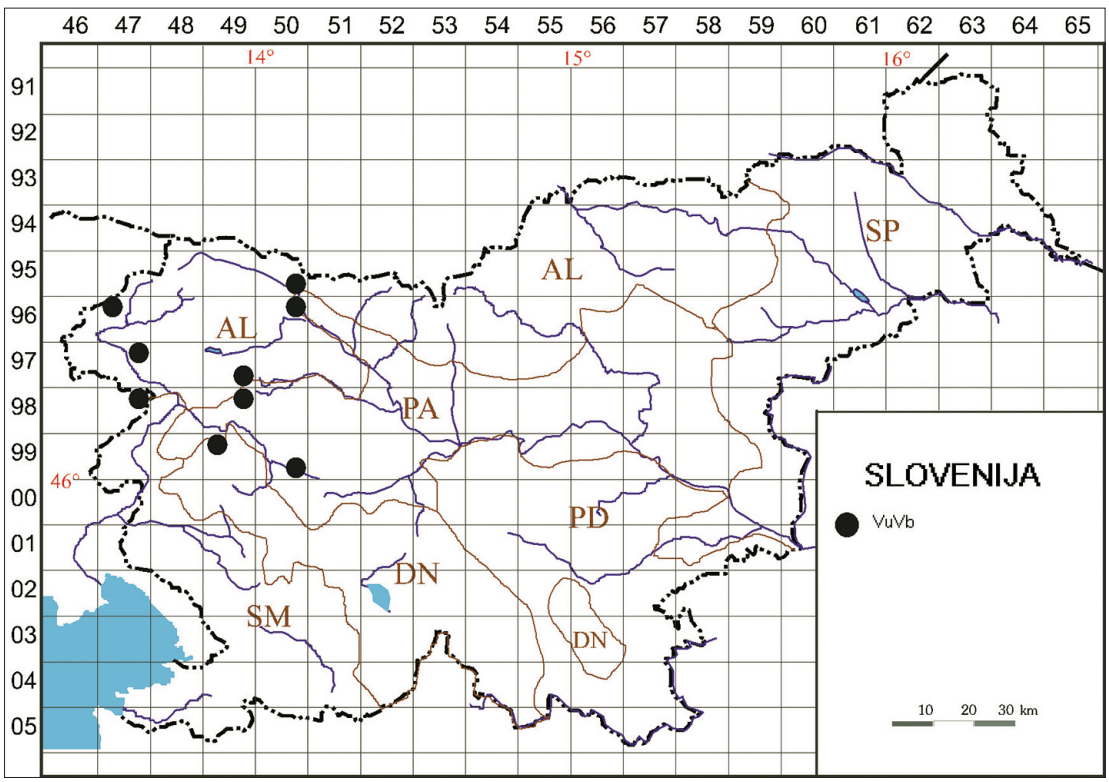

Figure 9: Approximate localities of stands of the association Veronico urticifoliae-Violetum biflorae on the map of Slovenia
Slika 9: Približna nahajališča sestojev asociacije Veronico urticifoliae-Violetum biflorae na zemljevidu Slovenije

3.4 Other chasmophytic communities above the Liščak gorge

Table 10 comprises eleven phytosociological relevés of chasmophytic communities in the Liščak gorge that cannot be classified into any of the associations described herein. As we do not have a sufficient number of relevés to adequately classify them into a syntaxonomic system, they were given provisional names. The relevés vary between each other and in our opinion only relevés 9–11 in Table 10 can be assigned to the alliance *Astrantio carniolicae-Paeaderotion luteae*. Relevés 9 and 10 are provisionally classified into the association *Valeriano tripteridis-Veronicetum urticifoliae* nom. prov. (see Dakskobler & Martinčič 2023), and relevé 11 into the provisional association *Palustriello commutati-Phyllitidetum scolopendrii* nom. prov. The elevation of the relevés ranges between 350 m and 530 m, the aspect is shady, and the geological bedrock is limestone with admixture of chert or marlstone. For the time being, relevés 1–5 are classified into the alliance *Physoplexido comosae-Saxifragion petraeae*, more specifically relevé 1 into the provisional association *Sileno hayekianae-Campanuletum carnicae* nom. prov., relevés 2 and 3 into the provisional association *Seslerio caeruleae-Sedetum albi* nom. prov., and relevés 4 and 5 into the provisional association *Arabido alpinae-Sedetum albi* nom. prov. They were made at elevations between 770 m and 1100, on slopes above the gorge rather than in the gorge, on sunny aspects; the bedrock is predominantly limestone. Relevés 6–8 are provisionally classified into the association *Tortello tortuosae-Asplenietum trichomanis* nom. prov. These relevés were made on sunny aspects at elevations between 410 m and 560 m; the geological bedrock is limestone admixed with claystone or marlstone.

3.5 Survey of described syntaxa and argumentation for the alliance *Astrantio carniolicae-Paederotion luteae*

Chasmophytic communities on moist calcareous or mixed calcareous-silicate bedrock in the submontane-altimontane (subalpine) belt in the Southeastern Alps and in the northern part of the Dinaric Alps have so far been classified into the alliance *Cystopteridon fragilis* Richard 1972. Recently (Dakskobler in Martinčič 2020) we listed the reasons why they could also be classified into a vicariant alliance of the alliance *Physoplexido comosae-Saxifragion petraeae* Mucina et Theurillat 2015. We proposed it be named *Astrantio carniolicae-Paederotion luteae* nom. prov. The material processed for this paper (see Table 11) provided sufficient grounds for its valid description.

Astrantio carniolicae-Paederotion luteae all. nov. hoc loco.

The nomenclatural type, *holotypus*, of the new alliance is the association *Astrantio carniolicae-Primuletum carniolicae* Dakskobler & Martinčič 2020 (Dakskobler & Martinčič 2020, Table 1).

It is described as an alliance of moist rock crevices in the Southeastern Alps and the northern part of the Dinaric Alps.

The diagnostic species of the new alliance are divided into phytogeographical-ecological and ecological.

The former comprise *Astrantia carniolica*, *Paederota lutea* and *Primula carniolica*, to a smaller extent also diagnostic species of alliances *Physoplexido comosae-Saxifragion petraeae* and *Aremonio-Fagion* as well as other southeastern-Alpine–northern-Dinaric species that individually occur in their stands. These sufficiently differentiate them from similar communities of the alliance *Cystopteridion*.

The ecological diagnostic species are *Aster bellidiastrum, Hydrogonium croceum* (*Barbula crocea*), *Carex brachystachys, Cystopteris fragilis, Asplenium viride, Eucladium verticillatum, Fissidens dubius, Hymenostylium recurvirostrum, Apopellia endiviifolia (Pellia endiviifolia), Palustriella commutata, Marchantia quadrata* (*Preissia quadrata*), *Pingiucula alpina, Orthothecium rufescens, Saxifraga aizoides*, *Tofieldia calyculata, Valeriana saxatilis, V. tripteris* and *Viola biflora*. These are character species of various alliances and classes, but differentiate the studied stands against communities from the vicariant alliance *Physoplexido comosae-Saxifragion petraeae*.

In addition to its holotype association and the below-listed associations discussed in this paper, the new alliance also includes associations *Ranunculo traunfellneri-Paederoteum luteae* Surina 2005, *Primuletum carniolicae* Accetto 2008, *Neckero crispae-Campanuletum justinianae* Accetto 1995, *Triseto argentei-Leontodontetum brumatii* Dakskobler, Seliškar et Vreš 2012, *Phyteumato columnae-Primuletum carniolicae* Dakskobler et Martinčič 2020 and *Primulo carniolicae-Potentilletum clusianae* Dakskobler & Martinčič 2020.

The synthetic table (Table 11) comprises eight columns that represent only the communities of moist rocks validly described in this paper. With hierarchical classification we obtained the dendrogram in Figure 10.

The syntaxa that are the most similar in terms of floristic similarity, which takes into account the constancy of all recorded species, are *Astrantio carniolicae-Pinguiculetum alpinae*, *Palustriello commutati--Astrantietum carniolicae, Violo biflorae-Astrantietum carniolicae* and *Veronico urticifoliae-Violetum biflorae*, and syntaxa *Palustriello commutati-Veronicetum urticifoliae* and *Veronico urticifoliae-Saxifragetum cuneifolii*. The syntaxa that stand out the most are *Calamagrostio variae-Asteretum bellidiastri* and *Campanulo cespitosae-Saxifragetum aizoidis achnatheretosum calamagrostis*. Communities with dominant *Pinguicula alpina*, *Astrantia carniolica* and (or) *Viola biflora*, and communities with dominant *Veronica urticifolia* and (or) *Saxifraga cuneifolia* are more similar. Some of the described syntaxa could be grouped based solely on their floristic similarity, but based on the dominant species with the highest medium coverage criterion this is no longer possible. Table 11 also shows that all described associations comprise a sufficient number of diagnostic species to be classified into the alliance *Astrantio-Paederotion luteae*.

3.6 Classification of the researched communities into the syntaxonomical system

Asplenietea trichomanis (Br.-Bl. in Meier et Br.-Bl. 1934) Oberd. 1977

Potentilletalia caulescentis Br.-Bl. in Br.-Bl. et Jenny 1926

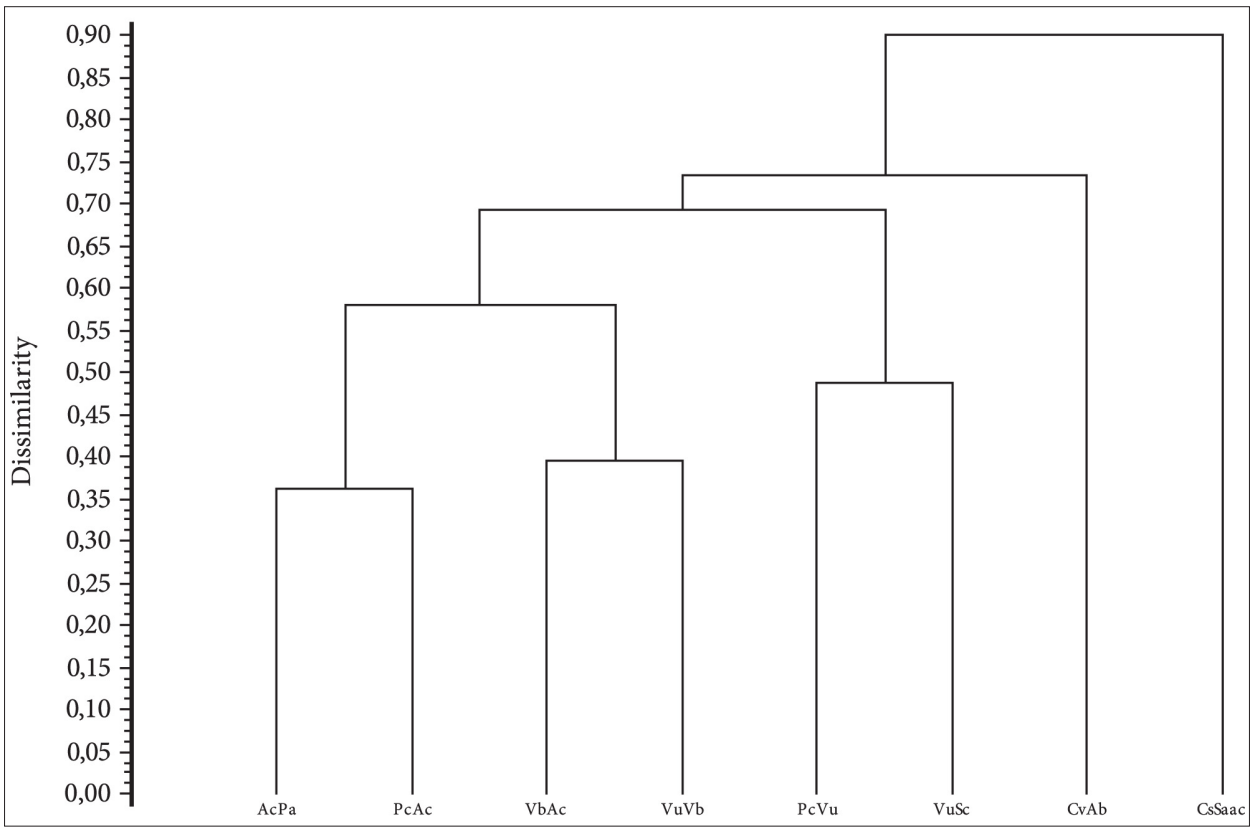

Figure 10: Dendrogram of communities of moist rock crevices in the Julian Alps and their foothills (UPGMA, 1-similarity ratio).
Slika 10: Dendrogram združb vlažnih skalnih razpok v Julijskih Alpah s prigorjem (UPGMA, 1-similarity ratio).

Legend (Legenda):
AcPa *Astrantio carniolicae-Pinguiculetum alpinae* (Table 1)
PcAc *Palustriello commutati-Astrantietum carniolicae* (Table 3)
VbAc *Violo biflorae-Astrantietum carniolicae* (Table 2)
VuVb *Veronico urticifoliae-Violetum biflorae* (Table 8)
PcVu *Palustriello commutati-Veronicetum urticifoliae* (Table 4)
VuSc *Veronico urticifoliae-Saxifragetum cuneifolii* (Table 6)
CvAb *Calamagrostio variae-Asteretum bellidiastri* (Table 7)
CcSaac *Campanulo cespitosae-Saxifragetum aizoidis achnatheretosum calamagrostis* (Table 5)

Astrantio carniolicae-Paederotion luteae all. nov. hoc loco
Astrantio carniolicae-Pinguiculetum alpinae Dakskobler et Martinčič 2020
var. *Calamagrostis* varia
Violo biflorae-Astrantietum carniolicae ass. nov. hoc loco
var. *Hymenostyilium recurvirostrum*
var. *Rhodothamnus chamaecistus*
var. *typica*
var. *Viola biflora*
Palustriello commutati-Astrantietum carniolicae ass. nov. hoc loco
var. *Carex mucronata*
var. *typica*
Palustriello commutati-Veronicetum urticifoliae ass. nov. hoc loco
Campanulo cespitosae-Saxifragetum aizoidis Dakskobler et Martinčič 2020
achnatheretosum calamagrostis subas. nov. hoc loco
Veronico urticifoliae-Saxifragetum cuneifolii ass. nov. hoc loco
var. *typica*
var. *Galeobdolon flavidum*
Calamagrostio variae-Asteretum bellidiastri ass. nov. hoc loco
var. *Brachythecium rivulare*
var. *Tortella tortuosa*
Veronico urticifoliae-Violetum biflorae ass. nov. hoc loco
var. *typica*
var. *Astrantia carniolica*
var. *Palustriella commutata*
subvar. *Primula auricula*
Paederoto luteae-Violetum biflorae nom. prov.
var. *Trisetum argenteum*
var. *Saxifraga rotundifolia*
var. *Campanula carnica*
var. *Saxifraga sedoides*
Cerastio subtriflorae-Violetum biflorae nom. prov.
Valeriano tripteridis-Veronicetum urticifoliae nom. prov.
Palustriello commutati-Phyllitidetum scolopendrii nom. prov.
Physoplexido comosae-Saxifragion petraeae Mucina et Theurillat 2015
Sileno hayekianae-Campanuletum carnicae nom. prov.
Seslerio caeruleae-Sedetum albi nom. prov.
Arabido alpinae-Sedetum albi nom. prov.
Tortello tortuosae-Asplenietum trichomanis nom. prov.
Montio-Cardaminetea Br.-Bl. & Tx. ex Klika et Hadač 1944
Montio-Cardaminetalia Pawłowski et al. 1928
Cratoneurion commutati Koch 1928
Cratoneuretum commutati Aichinger 1933

3.7 Tall-herb community with dominant *Lunaria rediviva* on colluvial-deluvial soils in gorges and ravines

One of the specifics of the vegetation in the Liščak gorge is also tall herbs on colluvial soils, at the foot of very steep slopes, especially on the right bank of the creek in its lower and medium course. The dominant tall herb species here is *Lunaria rediviva*. Having recorded similar communities also elsewhere in western Slovenia we prepared a table (Table 12) with 40 relevés and arranged it with hierarchical classification. Most of the relevés in the table can be classified into the new association *Lamio orvalae-Lunarietum redivivae* ass. nov. hoc loco. Its diagnostic species are *Lunaria rediviva, Galeobdolon flavidum, Sambucus nigra, Phyllitis scolopendrium, Lamium orvala*, *Cardamine pentaphyllos, Plagiomnium undulatum* and *Thamnobryum alopecurum*. In a recent article we already described it as a provisional association (Dakskobler & Martinčič 2021).

Lunaria rediviva is a species characteristic for noble hardwood forests from the alliance *Tilio-Acerion*. It occurs in most parts of Slovenia (Figure 11), in noble hardwood communities as well as in riparian woodland, for example in stands of associations *Lamio orvale-Salicetum albae*, *Lamio orvalae-Alnetum incanae* and *Lamio orvalae-Alnetum glutinosae*.

On smaller, 10 m^2 to 100 m^2 large areas, its stands are syndynamically related in particular to communities of noble hardwood forests from the alliance *Tilio-Acerion* (associations *Fraxino orni-Aceretum pseudoplatani*, *Veratro nigri-Fraxinetum*, *Hacquetio-Fraxinetum*, *Lamio orvalae-Aceretum*, *Omphalodo-Aceretum*) and mesophilous beech communities from the alliance *Aremonio-Fagion* (*Ornithogalo pyrenaici-Fagetum*, *Lamio orvalae-Fagetum*, *Omphalodo-Fagetum*, *Isopyro-Fagetum*). In places, successional development proceeds across elderberry shrubs from the subassociation *Lamio orvalae-Sambucetum nigrae* Poldini et Vidali 1995 *lunarietosum redivivae* (Table 13), which is described below.

Approximate localities of recorded stands of this association are shown in Figure 12. They were made in the Alpine, pre-Alpine, sub-Mediterranean, Dinaric and pre-Dinaric phytogeographical regions. The

elevation of the relevés ranges from 100 m (Petnik gorge at Branik, see also Dakskobler & Poldini 2021) to 1050 m (Kacenpoh gorge at Podbrdo). The average number of species per relevé is 21, and the number of species ranges between 9 (rockfall material in the Doblarca gorge) and 45 (the relevé at the contact of the colluvium and alluvium in the Prodar gorge at Podbrdo), depending on the size of the community surface area and certain ecological factors (rockiness, rock debris or gravel, admixture of non-calcareous rocks).

Even though our relevés comprise also *Aruncus dioicus* they cannot be classified into the association *Arunco vulgaris-Lunarietum redivivae* Sádlo et Petřík in Chytrý 2009, because its stands belong in a group of ruderal communities and are classified into the alliance *Impatienti noli-tangere-Stachyion sylvaticae* and class *Galio-Urticetea* (Sádlo & Petřík 2009). The studied association is classified into the alliance *Arunco-Petasition*, which comprises tall herb communities on stony, nutrient-rich soils on steep slopes in the montane and upper montane belt in the Alps. The nomenclatural type, *holotypus*, of the new association *Lamio orvalae-Lunarietum redivivae* is relevé 8 in Table 12.

Relevé 39 in Table 12 (the locality under Mt. Črna Gora above mountain pasture Za Liscem in the vicinity of Mt. Črna Prst) is classified into the provisional subassociation *Doronico austriaci-Adenostyletum alliariae lunarietosum redivivae* nom. prov., and relevé 40 in Table 12 (the bottom of the frost hollow above Pradol between Mt. Mija and Mt. Ljubija) into the provisional association *Lunario redivivae-Saxifragetum rotundifoliae* nom. prov.

The studied communities with dominant *Lunaria rediviva* are classified into higher syntaxonomic units as follows:

Mulgedio-Aconitetea Hadač et Klika in Klika et Hadač 1944
- *Adenostyletalia alliariae* Br.-Bl. 1926
  - *Adenostylion alliariae* Br.-Bl. 1926
    - *Doronico austriaci-Adenostyletum alliariae* Horvat ex Horvat et al. 1974
      - *lunarietosum redivivae* nom. prov.
- *Lunario redivivae-Saxifragetum rotundifoliae* nom. prov.
- *Petasito-Chaerophylletalia* Morariu 1967
  - *Arunco-Petasition albi* Br.-Bl. et Sutter 1977
    - *Lamio orvalae-Lunarietum redivivae* ass. nov. hoc loco

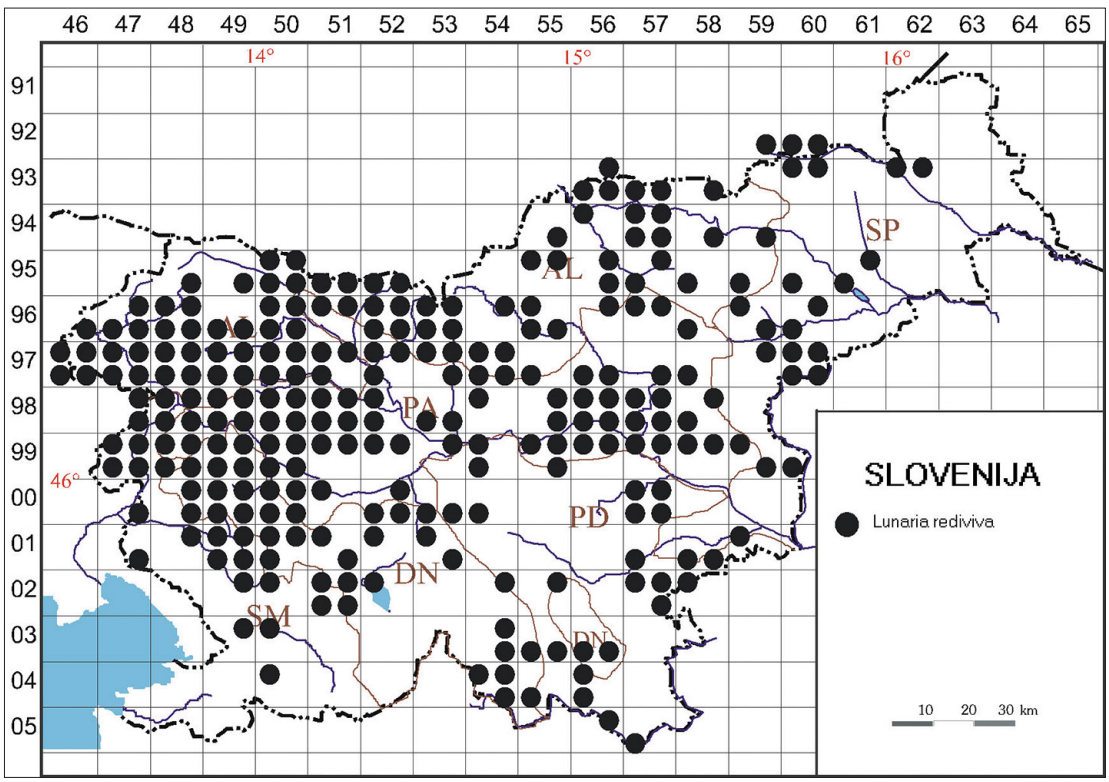

Figure 11: Distribution of Lunaria rediviva (FloVegSi database).
Slika 11: Razširjenost vrste Lunaria rediviva v Sloveniji (podatkovna baza FloVegSi).

3.8 Shrub communities of *Sambucus nigra* and *Lamium orvala* (*Lamio orvalae-Sambucetum nigrae*) in Slovenia

As tall herbs with dominant *Lunaria rediviva* (*Lamio orvalae-Lunarietum redivivae*) are one of the specifics of the vegetation at Liščak and are often syndynamically related to *Sambucus nigra* shrubs, we hierarchically classified 25 relevés of these shrubs and arranged them in Table 13 (their approximate localities are shown in Figure 13). Most, at least 24 of them, can be classified into the association *Lamio orvalae-Sambucetum nigrae*, which was described by Poldini & Vidali (1995), who classified it into the class *Querco-Fagetea* and order *Prunetalia spinosae*. They divided it into two geographical variants: var. geogr. *Helleborus odorus* – the Friulian race (razza friulana), and var. geogr. *Hellebous istriacus* – the Karstic race (razza carsica), and listed *Lamium orvala* as the only diagnostic species.

Some of our relevés were made in gaps of Illyrian beech forests from the alliance *Aremonio-Fagion*, most often on potential sites of associations *Lamio orvalae-Fagetum*, *Arunco-Fagetum* or *Ornithogalo-Fagetum*, and some on very stony, gravelly sites (colluvium, rockfall material) under rock walls, where we find potential sites of noble hardwood communities from the alliance *Tilio-Acerion*.

Floristically, they are clearly different from the Friuli relevés, most notably in the frequency and high coverage of *Lunaria rediviva* in most of the relevés. Diagnostic species of the association are *Sambucus nigra*, *Lamium orvala*, *Phyllitis scolopendrium* and *Geranium robertianum*. *Anemone trifolia* is the geographical differential species (the first three relevés in Table 13 from Mt. Donačka Gora and relevé 25 from Istria do not belong in this geographical variant). Relevés 1–22 in Table 13 are classified into the new subassociation *lunarietosum redivivae* subass. nov. hoc loco. Its differential species are *Lunaria rediviva*, *Circaea lutetiana* and *Cardamine pentaphyllos*. Its nomenclatural type, *holotypus*, is relevé 11 in Table 13. The elevation of the localities ranges from 230 m to 780 m (from the colline to the lower montane belt) and the aspect is predominantly shady. The soil is colluvial-delluvial, in places also Chromic Cambisols or eutric soils.

We distinguish several variants. The localities of the stands of the variant with *Impatiens noli-tangere* (relevés 1–6) are in the old growth forest remnant under Mt. Donačka Gora, in the Zapoška Grapa gorge under Mt. Porezen, and in the Vintgar Gorge at Podhom. The differential species of this variant are also *Milium effusum* and *Urtica dioica*, the latter mainly on account of high medium coverage. The listed spe-

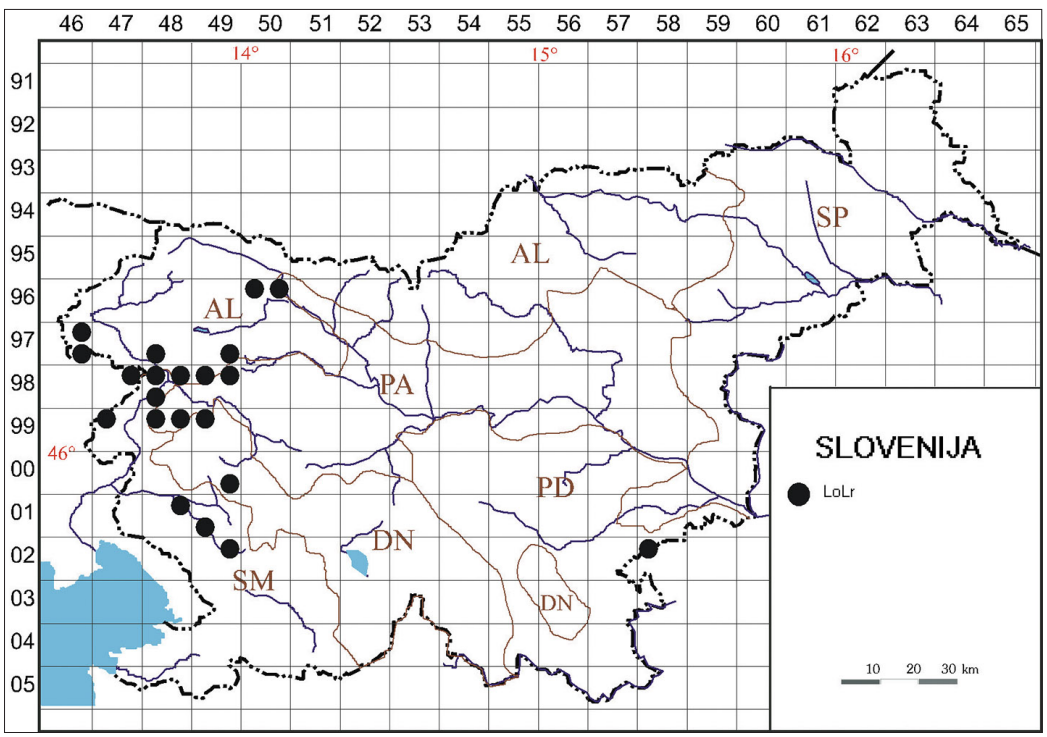

Figure 12: Localities of stands of the association Lamio orvalae-Lunarietum redivivae on the map of Slovenia.
Slika 12: Nahajališča sestojev asociacije Lamio orvalae-Lunarietum redivivae na zemljevidu Slovenije.

cies indicate nutrient-rich sites. The localities of the stands of the variant with *Cardamine trifolia* (its differential species are also *Fraxinus excelsior* and *Tilia platyphyllos*), relevés 7–14, are in the Avščck Gorge (Banjšice) on the sites of associations *Ornithogalo-Fagetum* and *Lamio orvalae-Fagetum*. Relevés of the stands of the variant with *Scopolia carniolica* (relevés 15–20) were made in the gorges of Avščck, Raskovec (Žirovnica near Žiri), Pekel at Postaja and in the Vratarska Grapa gorge (the latter two are on the northern rim of the Banjšice Plateau above the Idrijca Valley). The stands of this variant occur on aceretal sites, in the vicinity of stands of associations *Veratro nigri-Fraxinetum* or *Hacquetio-Fraxinetum*. Relevés 21 and 22 are classified into the variant with *Leucojum vernum* (its locality is a small gorge at the village of Svino in the Kobarid area). Relevés 23 and 24 do not belong in the subassociation *lunarietosum redivivae*; it is classified only at the rank of variant, namely var. *Adenostyles glabra*. Its locality is Kašana in the Zadlaščica Gorge, and its site is the rockfall material under the wall. *Urtica dioica* has high medium coverage. Relevé 25 in Table 13 also does not belong in the subassociation *lunarietosum*, possibly not even into the association *Lamio orvalae-Sambucetum*, because it does not comprise its diagnostic species. For the time being it is still treated in the framework of this association as a special variant with *Ruscus aculeatus* (the differential species is also *Primula vulgaris*). In terms of species composition this stand is still more similar to the stands of this association than to the stands of the association *Bryonio dioicae-Sambucetum nigrae*, which was also described by Poldini & Vidali (1995). Its locality is Branski Bošk in a shady gorge under the village of Korte in Istria, in the vicinity of localities of the association *Ornithogalo-Carpinetum betuli*.

According to our findings, the association *Lamio orvalae-Sambucetum nigrae* is classified into higher syntaxonomic units as follows:

Querco-Fagetea Br.-Bl. et Vlieger in Vlieger 1937 (*Carpino-Fagetea sylvaticae* Jakucs ex Passarge 1968)
Fagetalia sylvaticae Pawłowski 1928
Tilio-Acerion Klika 1955
Lamio orvalae-Sambucetum nigrae Poldini et Vidali 1995
lunarietosum redivivae subass. nov.
var. *Impatiens noli-tangere*
var. *Cardamine trifolia*
var. *Scopolia carniolica*
var. *Leucojum vernum*
var. *Adenostyles glabra* (prov.)
var. *Ruscus aculeatus* (prov.)

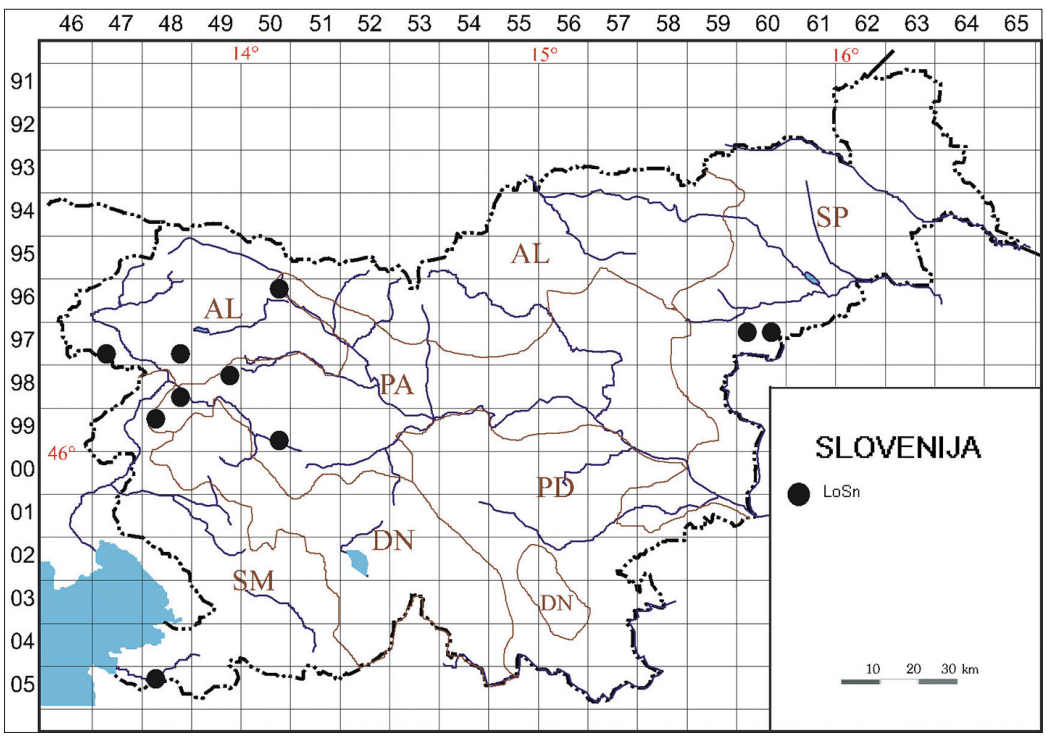

Figure 13: Approximate localities of stands of the association Lamio orvalae-Sambucetum nigrae on the map of Slovenia.
Slika 13: Nahajališča sestojev asociacije Lamio orvalae-Sambucetum nigrae na zemljevidu Slovenije.

4. CONCLUSIONS

The Liščak gorge in the Southern Julian Alps is a natural feature of local importance, mainly on account of its geomorphological and geological specifics. Its watershed area is almonst entirely forested, uninhabited and with little direct human impact. There are no artificial barriers on the creek, only remnants of former mills and a few signs of former charcoal production and floating of wood. In addition to numerous localities of protected *Taxus baccata* and endemic *Aconitum angustifolium*, communities of moist rock crevices also feature among the botanical curiosities of this gorge. They are classified into the following associations: *Astrantio carniolicae-Pingiuculetum alpinae, Palustriello commutati-Astrantietum carniolica*, *Palustriello commutati-Veronicetum urticifoliae*, *Veronico urticifoliae-Saxifragetum cuneifolii*, *Calamagrostio varie-Asteretum bellidiastri* and *Campanulo cespitosae-Saxifragetum aizoidis*. All but the first and the last were described as new.

The most important in view of nature conservation are the stands of the first (*Astrantio-Pinguiculetum*, localities of protected *Pinguicula alpina*), the second (*Palustriello-Astrantietum carniolica,* localities of two relatively rare mosses *Trichostomum crispulum* and *Microlejeunea ulicina* in the ravine of Velike Luti in the Kneška Grapa gorge), and the last (*Campanulo--Saxifragetum*) association, namely because of the specific character of the erosion area by the Luknova Grapa gorge, where the frigidophilous and hygrophilous subalpine-alpine species *Saxifraga aizoides* and the thermophilous scree species *Achnatherum calamagrostis* occur together. When describing the communities of moist rock crevices at Liščak we also analysed our relevés from other gorges in the Julian Alps and their foothills, and described two new associations, *Violo biflorae-Astrantietum carniolicae* and *Veronico urticifoliae-Violetum biflorae*, which, however, do not have any localities in Liščak. Based on the newly described communities analysed herein and similar communities in the northern-Dinaric and pre-Alpine part of Slovenia we also described a new alliance *Astrantio carniolicae-Paederotion luteae*, into which we assign the studied communities.

A special feature of the Liščak gorge is also tall herbs with *Lunaria rediviva* and *Lamium orvala* on colluvium (gravel) at the foot of steep slopes. Based on the relevés from this and other gorges in Slovenia we classify such stands into the new association *Lamio orvalae-Lunarietum redivivae*. One of its character species is also the shrub *Sambucus nigra*, which is occasionally, on similar sites in the next successional stage, a dominant species in the stands of the association *Lamio orvalae-Sambucetum nigrae*. Such stands are known from the neighbouring Friuli-Venezia Giulia. We documented them with a phytosociological table for Slovenia and described a new subassociation with *Lunaria rediviva* (*lunarietosum redivivae*).

Associations *Violo biflorae-Astrantietum carniolicae*, *Calamagrostio variae-Asteretum bellidiastri*, *Veronico urticifoliae-Violetum biflorae*, *Lamio orvalae-Lunarietum redivivae* and *Lamio orvalae-Sambucetum nigrae* are new to the vegetation of the Triglav National Park (our descriptions take into account also the relevés from Trenta, Loška Koritnica, Možnica, Zadlaščica, Voje, Kot, the Pokljuka ravine and Vintgar.

Chasmophytic communities described in this paper belong to the Natura 2000 habitat type 8210 Calcareous rocky slopes with chasmophytic vegetation and 7220* Petrifying springs with tufa formation (*Cratoneurion*), and tall herbs with *Lunaria rediviva* belong in Natura 2000 habitat type 6430 Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels.

5 POVZETEK

Liščak je okoli 3 km dolg potok v Kneški grapi in Baški dolini v južnih Julijskih Alpah. Izvira na nadmorski višini okoli 1000 m pod goro Ploha (1270 m) v Tolminsko--Bohinjskem pogorju in se izliva v reko Knežo na nadmorski višini 331 m. Na zračni razdalji okoli 2500 m premaga višinsko razliko skoraj 700 m. Z obeh bregov se v potok izlivajo številni pritoki s še večjim padcem kot ga ima glavna grapa. Ta je zelo ozka, le z redkimi manjšimi razširitvami, kjer se kopiči prod in pobočni grušč. Geološka podlaga je zelo pisana: dolomit, apnenec, roženec, laporovec, glinavec (Buser 1986, 1987). Ker je grapa obrnjena proti jugovzhodu, je podnebje razmeroma toplo in humidno, z letnim povprečjem padavin več kot 2000 mm (Zupančič 1998) in srednjo letno temperaturo okoli 7-8 °C (Cegnar 1998).

V povodju Liščaka (3,42 km^2) je gozdnatost okoli 90 %. Največje površine gozdnih sestojev uvrščamo v naslednje asociacije: *Seslerio autumnalis-Fagetum, Lamio orvalae-Fagetum, Saxifrago cuneifolii-Fagetum, Fraxino orni-Ostryetum* in *Veratro nigri-Fraxinetum excelsioris.*

V celotnem povodju Liščaka ni več nobene naseljene hiše, na potoku so še ostanki mlinov, ni pa nobenih umetnih pregrad in drugih neposrednih človekovih vplivov. Zaradi številnih geoloških in geomorfoloških posebnosti sta potok in njegova grapa zavarovana kot naravna vrednota regionalnega oz. lokalnega pomena (Rojšek 1986, 1991, https://www.naravovarstveni-atlas.si/web/DefaultNvaPublic.aspx.).

Vegetacijo v povodju Liščaka smo začeli raziskovati leta 1986, nadaljevali v letih 1987 in 1988. Po dolgem času smo to grapo ponovno obiskali leta 2015 in s pomočjo in vodenjem Petra Razpeta predvsem v letih 2018, 2019, 2020 in 2021 v njej naredili več kot 200 fitocenoloških in floristične popisov. Podobo celotnega rastlinstva in rastja bomo opisali v drugem članku. V tem se posvečamo izključno rastju vlažnih skalnih razpok in visokemu steblikovju na vlažnem pobočnem grušču (slika 1).

Popise iz Liščaka in njegove neposredne okolice (Velike Luti) smo želeli umestiti v sintaksonomski system. Pri nekaterih popisih je bilo to mogoče, pri drugih ne, zato smo v nekatere preglednice uvrstili tudi popise iz nekaterih drugih grap, kjer zadnja leta proučujemo rastje skalnih razpok (Dakskobler et al. 2021, Dakskobler & Martinčič 2020, 2021) in na tej podlagi opisali nekatere nove asociacije. V združbah vlažnih skalnih razpok podgorskega in gorskega pasu v Julijskih Alpah s prigorjem večinoma prevladujejo naslednje cevnice *Pinguicula alpina, Astrantia carniolica*, *Viola biflora, Aster bellidiastrum, Veronica urticifolia, Valeriana tripteris, V. saxatilis*, *Saxifraga cuneifolia, Saxifraga aizoides, Asplenium viride, A. trichomanes* in mahovi in jetrenjaki *Orthothecium rufescens, Palustriella commutata, Hymenostylium recurvirostrum* in *Conocephalum conicum*. Kljub precejšnji floristični podobnosti jih ne moremo uvrstiti le v eno samo asociacijo. Zato smo pri opisih novih združb na rangu asociacije upoštevali tudi stalnost in srednje zastiranje prevladujočih vrst na popisnih ploskvah, saj prav po tem znaku te združbe lahko prepoznamo tudi na terenu. Podobno ravnamo v nekaterih primerih tudi pri traviščnih, grmiščnih in gozdnih združbah, ko je za uvrstitev v določeno asociacijo odločilna prevladujoča vrsta najvišje sestojne plasti.

Po napisanem pristopu smo v grapi Liščaka prepoznali naslednje asociacije: *Astrantio carniolicae-Pinguiculetum alpinae, Palustriello commutati-Astrantietum carniolica*, *Palustriello commutati-Veronicetum urticifoliae*, *Veronico urticifoliae-Saxifragetum cuneifolii*, *Calamagrostio varie-Asteretum bellidiastri* in *Campanulo cespitosae-Saxifragetum aizoidis*. Vse razen prve in zadnje smo opisali kot nove.

Naravovarstveno najbolj vredni so sestoji prve (*Astrantio-Pinguiculetum*, nahajališča zavarovane vrste *Pinguicula alpina*), druge (*Palustriello-Astrantietum carniolica,* nahajališča dveh razmeroma redkih mahovnih vrst *Trichostomum crispulum* in *Microlejeunea ulicina* v soteski Velike Luti v Kneški grapi) in zadnje (*Campanulo-Saxifragetum*), zaradi posebnosti erozijskega območja ob Luknovi grapi, kjer skupaj uspevata hladno- in vlagoljubna subalpinsko-alpinska vrsta *Saxifraga aizoides* in toploljubna vrsta melišč *Achnatherum calamagrostis*. Ob opisovanju združb vlažnih skalnih razpok ob Liščaku smo v pretres in obravnavo vključili tudi naše popise iz drugih grap v Julijskih Alpah in njihovem prigorju in opisali še dve novi asociaciji *Violo biflorae-Astrantietum carniolicae* in *Veronico urticifoliae-Violetum biflorae,* ki pa v Liščaku nimata svojih nahajališč.

Na podlagi v teh članku novo opisanih združb in podobnih združb v severnodinarskem in predalpskem delu Slovenije smo opisali tudi novo zvezo *Astrantio carniolicae-Paederotion luteae*, kamor obravnavane asociacije tudi uvrščamo. Njene diagnostične vrste delimo na fitogeografsko-ekološke in ekološke. Prve so *Astrantia carniolica, Paederota lutea* in *Primula carniolica*, v manjši meri tudi diagnostične vrste zvez *Physoplexido comosae-Saxifragion petraeae* in *Aremonio-Fagion* ter druge jugovzhodnoalpsko-severnodinarske vrste, ki se posamično pojavljajo v njihovih sestojih. Te jih zadostno razlikujejo od podobnih združb iz zveze *Cystopteridion.* Ekološke diagnostične vrste so *Aster bellidiastrum, Hydrogonium croceum* (*Barbula crocea*), *Carex brachystachys, Cystopteris fragilis, Asplenium viride, Eucladium verticillatum, Fissidens dubius, Hymenostylium recurvirostrum, Apopellia endiviifolia (Pellia endiviifolia), Palustriella commutata, Marchantia quadrata (Preissia quadrata), Pingiucula alpina, Orthothecium rufescens, Saxifraga aizoides*, *Tofieldia calyculata, Valeriana saxatilis, V. tripteris* in *Viola biflora*. Naštete so sicer značilnice različnih zvez in razredov, a proučene združbe razlikujejo od združb bolj suhega skalovja iz zveze *Physoplexido comosae-Saxifragion petraeae.*

Posebnost grape Liščaka je tudi visoko steblikovje s srebrenko (*Lunaria rediviva*) in velecvetno mrtvo koprivo (*Lamium orvala*) na koluviju (grušču) ob dnu strmih pobočij. Takšne sestoje na podlagi popisov tudi iz drugih grap uvrščamo v novo asociacijo *Lamio orvalae-Lunarietum redivivae*. Ena izmed njenih značilnic je tudi črni bezeg (*Sambucus nigra*), ki je ponekod na podobnih rastiščih v naslednji sukcesijski stopnji prevladujoča vrsta zgornje plasti v sestojih asociacije *Lamio orvalae-Sambucetum nigrae*. Takšne sestoje poznajo v sosednji deželi Furlaniji Julijski krajini, s fitocenološko tabelo smo jih dokumentirali tudi v Sloveniji in opisali novo subasociacijo s srebrenko (*lunarietosum redivivae*).

Asociacije *Violo biflorae-Astrantietum carniolicae*, *Calamagrostio variae-Asteretum bellidiastri, Veronico urticifoliae-Violetum biflorae*, *Lamio orvalae-Lunarietum redivivae* in *Lamio orvalae-Sambucetum nigrae* so novost v rastju Triglavskega narodnega parka, saj smo pri njihovem opisu upoštevali tudi popise iz Trente, Loške Koritnice, Možnice, Zadlaščice, Voj, Pokljuške soteske, Kota in Vintgarja.

V tem članku opisane združbe skalnih razpok sodijo v Natura 2000 habitatna tipa 8210 Karbonatna skalnata pobočja z vegetacijo skalnih razpok in 7220* Lehnjakotvorni izviri (*Cratoneurion*), visoko steblikovje s srebrenko pa v Natura 2000 habitatni tip 6430 Nižinske in montanske do alpinske hidrofilne združbe z visokim steblikovjem.

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Figure 14: Kneška Grapa gorge at Velike Luti
Slika 14: Kneška grapa pri koritih Velike Luti

Figure 15: The Liščak gorge (Kneška Grapa gorge, Bača Valley).
Slika 15: Liščak (Kneška grapa, Baška dolina).

Figure 16: Researched sites in the Liščak gorge: moist rocks, debris and talus.
Slika 16: Proučena rastišča v grapi Liščaka, vlažno skalovje, pobočni grušč in vršaji.

Figure 17 a: Stand of the association Astrantio carniolicae-Pinguiculetum alpinae in the Liščak gorge.
Slika 17 a: Sestoj asociacije Astrantio carniolicae-Pinguiculetum alpinae v grapi Liščak.

Figure 17 b: Stand of the association Astrantio carniolicae-Pinguiculetum alpinae in the Kneška Grapa gorge (Velike Luti).
Slika 17 b: Sestoj asociacije Astrantio carniolicae-Pinguiculetum alpinae v Kneški grapi (Velike Luti).

Figure 18: Stand of the association Violo biflorae-Astrantietum carniolicae, Govci above the Trebuša Valley.
Slika 18: Sestoj asociacije Violo biflorae-Astrantietum carniolicae, Govci nad dolino Trebuše.

Figure 19: Stand of the variant Palustriello commutati-Astrantietum carniolicae var. Carex mucronata, Velike Luti in the Kneška Grapa gorge.
Slika 19: Sestoj variante Palustriello commutati-Astrantietum carniolicae var. Carex mucronata, Velike Luti v Kneški grapi.

Figure 20: Stand of the association Palustriello commutati-Astrantietum carniolicae in the Liščak gorge.
Slika 20: Sestoj asociacije Palustriello commutati-Astrantietum carniolicae v grapi Liščaka.

Figure 21: Stand of the association Palustriello-Veronicetum urticifoliae in the Liščak gorge.
Slika 21: Sestoj asociacije Palustriello-Veronicetum urticifoliae v grapi Liščaka.

Figure 22: Stand of the association Cratoneuretum commutati s. lat. in the Liščak gorge.
Slika 22: Sestoj asociacije Cratoneuretum commutati s. lat. v grapi Liščaka.

Figure 23: Stand of the subassociation Campanulo cespitosae-Saxifragetum aizoidis achnatheretosum calamagrostis, Luknova Grapa gorge (Za Jamo).
Slika 23: Sestoj subasociacije Campanulo cespitosae-Saxifragetum aizoidis achnatheretosum calamagrostis, Luknova grapa (Za Jamo).

Figure 24: Stand of the association Veronico urticifoliae-Saxifragetum cuneifolii in the Liščak gorge.
Slika 24: Sestoj asociacije Veronico urticifoliae-Saxifragetum cuneifolii v grapi Liščaka.

Figure 25: Stand of the association Calamagrostio variae-Asteretum bellidiastri in the Kneška Grapa gorge.
Slika 25: Sestoj asociacije Calamagrostio variae-Asteretum bellidiastri v Kneški grapi.

Figure 26: Stand of the association Calamagrostio variae-Asteretum bellidiastri in the Vintgar gorge.
Slika 26: Sestoj asociacije Calamagrostio variae-Asteretum bellidiastri v Vintgarju.

Figure 27: Strand of the association Veronico urticifoliae-Violetum biflorae in the Vintgar Gorge.
Slika 27: Sestoj asociacije Veronico urticifoliae-Violetum biflorae v Vintgarju.

Figure 28: Stand of the syntaxon Seslerio caeruleae-Sedetum albi nom. prov. in the spring area of the Liščak gorge.
Slika 28: Sestoj sintaksona Seslerio caeruleae-Sedetum albi v povirju Liščaka.

Figure 29 a: Stand of the association Lamio orvalae-Lunarietum redivivae in the Vintgar gorge.
Slika 29 a: Sestoj asociacije Lamio orvalae-Lunarietum redivivae v Vintgarju.

Figure 29 b: Stand of the association Lamio orvalae-Lunarietum redivivae in the Liščak gorge.
Slika 29 b: Sestoj asociacije Lamio orvalae-Lunarietum redivivae v grapi Liščaka.

Figure 30: Stand of the association Lamio orvalae-Sambucetum nigrae in the Avščekgorge.
Slika 30: Sestoj asociacije Lamio orvalae-Sambucetum nigrae v grapi Avščka.

Foto (Photo): I. Dakskobler

Table 1 (Preglednica 1): ***Astrantio carniolicae-Pinguiculetum alpinae*** var. ***Calamagrostis varia***

Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	19	11	12	13	14		
Database number of relevé (Delovna številka popisa)		282276	282259	282261	282266	282273	285277	285281	285278	285279	285282	287163	287215	285358	287208		
Elevation in m (Nadmorska višina v m)		590	560	565	625	620	325	335	330	330	335	455	300	300	320		
Aspect (Lega)		SE	W	W	W	S	SW	SWW	SW	SW	SW	SW	S	W	NE		
Slope in degrees (Nagib v stopinjah)		90	90	90	90	80	90	90	90	90	90	90	90	90	80		
Parent material (Matična podlaga)		LMCh	LMCh	LMCh	DCh	DCh	DCh	DCh	DCh	DCh	DCh	LMCh	LClCh	DCh	DCh		
Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li		
Stoniness in % (Kamnitost v %)		100	100	100	100	100	100	100	100	100	100	100	100	100	100		
Cover of herb layer in % (Zastiranje zeliščne plasti v %):		30	30	30	40	30	30	30	40	35	40	40	50	25	40		
Cover of moss layer in % (Zastiranje mahovne plasti v %):		40	50	70	60	60	40	40	30	30	60	50	30	20	30		
Number of species (Število vrst)		9	21	18	19	24	15	12	10	15	18	15	15	10	22		
Relevé area (Velikost popisne ploskve)	m^2	10	5	10	10	10	10	20	10	10	5	10	10	10	10		
Date of taking relevé (Datum popisa)		8/21/2020	8/21/2020	8/21/2020	8/21/2020	8/21/2020	4/9/2021	4/9/2021	4/9/2021	4/9/2021	4/9/2021	8/11/2021	6/18/2021	4/14/2021	6/18/2021		
Locality (Nahajališče)		Liščak-Zališčarjeva grapa	Liščak-Luknova grapa	Liščak	Liščak	Liščak	Velike Luti	Velike Luti	Velike Luti	Velike Luti	Velike Luti	Liščak-Sopot	Knežica-Mlinar	Velike Luti	Velike Luti		
Quadrant (Kvadrant)		9749/3	9749/3	9749/3	9749/3	9749/3	9849/1	9849/1	9849/1	9849/1	9849/1	9849/1	9849/1	9849/1	9849/1		
Coordinate GK Y (D-48)	m	411238	411553	411565	411626	411589	411053	410876	411029	411011	410846	411359	411065	411058	410734		
Coordinate GK X (D-48)	m	5118090	5118074	5118055	5118286	5118274	5116536	5116758	5116573	5116584	5116789	5117686	5116408	5116428	5116795		
Diagnostic species of the association (Diagnostične vrste asociacije)																Pr.	Fr.
AP *Pinguicula alpina*	E1	1	1	1	1	+	2	3	3	3	3	3	2	2	2	14	100
AP *Hymenostylium recurvirostrum*	E0	+	2	3	3	2	2	3	1	2	3	3	1	1	1	14	100
AP *Palustriella commutata*	E0	3	3	2	2	4	3	2	2	2	2	2	3	1	2	14	100
AP *Astrantia carniolica*	E1	3	.	.	+	+	1	1	.	r	.	3	3	+	1	10	71
TR *Petasites paradoxus*	E1	.	.	.	.	.	1	r	+	r	.	.	+	.	r	6	43
AP ***Astrantio carniolicae-Paederotion luteae***																	
Aster bellidiastrum	E1	.	1	1	+	+	+	+	+	r	.	1	1	1	1	12	86
Apopellia endiviifolia (Pellia endiviifolia)	E0	1	1	1	1	.	.	.	1	.	+	+	.	.	+	8	57
Carex brachystachys	E1	.	2	1	2	.	1	.	.	+	.	+	.	.	+	7	50
Orthothecium rufescens	E0	.	1	+	+	.	.	.	.	+	.	.	.	1	2	6	43
Eucladium verticillatum	E0	+	+	.	.	+	.	1	.	.	+	1	.	.	.	6	43
Tofieldia calyculata	E1	.	.	.	r	+	.	+	.	.	+	.	1	.	.	5	36
Valeriana tripteris	E1	.	.	1	.	2	.	.	.	.	.	+	.	.	+	4	29
Marchantia quadrata (Preissia quadrata)	E0	.	+	.	.	+	.	.	.	.	+	.	.	.	.	3	21
Fissidens dubius	E0	.	.	+	.	.	.	.	+	.	.	.	.	.	+	3	21
Jungermannia atrovirens	E0	.	.	.	+	.	.	+	.	.	.	.	.	.	.	2	14

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	19	11	12	13	14	Pr.	Fr.
	Hydrogonium croceum (Barbula crocea)	E0	.	.	.	.	.	.	.	.	.	1	.	.	.	1	2	14
	Saxifraga aizoides	E1	.	+	.	.	.	.	.	.	.	.	.	.	.	.	1	7
	Valeriana saxatilis	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	2	1	7
	Differential species of the variant (Razlikovalnica variante)																	
EP	*Calamagrostis varia*	E1	+	1	1	2	2	+	+	.	r	1	.	+	+	+	12	86
PsSp	***Physoplexido comosae-Saxifragion petraeae***																	
	Campanula cespitosa	E1	+	.	.	2	+	.	.	.	.	.	+	.	.	.	4	29
	Hieracium porrifolium	E1	.	.	.	.	r	.	.	.	.	.	.	.	.	.	1	7
PC	***Potentilletalia caulescentis***																	
	Saxifraga crustata	E1	.	r	.	.	.	.	.	.	.	.	.	.	.	.	1	7
	Asplenietea trichomanis																	
	Asplenium ruta-muraria	E1	.	+	+	.	.	.	.	.	.	+	.	.	.	.	3	21
	Asplenium trichomanes	E1	.	+	.	.	.	.	.	.	.	r	.	.	.	.	2	14
TR	***Thlaspietea rotundifolii***																	
	Hieracium bifidum	E1	.	+	1	+	+	r	.	.	r	+	.	.	.	.	7	50
	Adenostyles glabra	E1	.	+	1	+	.	.	.	.	.	.	1	.	.	.	4	29
MC	***Montio-Cardaminetea***																	
	Conocephalum conicum	E0	.	.	.	.	1	.	.	.	.	.	.	.	.	+	2	14
	Aneura pinguis	E0	.	.	.	.	.	.	.	.	+	.	.	.	.	.	1	7
CD	***Caricetalia davallianae***																	
	Campylophyllopsis calcarea (Campylium calcarea)	E0	.	.	+	.	.	.	.	.	.	.	.	.	.	.	1	7
	Campylium stellatum	E0	.	.	.	.	.	.	.	+	.	.	.	.	.	.	1	7
	Carex lepidocarpa	E1	.	.	.	.	.	.	.	.	.	.	.	+	.	.	1	7
ES	***Elyno-Seslerietea***																	
	Sesleria caerulea	E1	.	.	.	.	.	+	1	1	+	2	.	.	+	1	7	50
MA	***Molinio-Arrhenatheretea***																	
	Angelica sylvestris	E1	.	.	.	+	.	r	.	.	.	.	.	.	.	.	2	14
BA	***Betulo-Alnetea***																	
	Salix appendiculata	E2a	.	.	.	.	.	r	.	+	.	+	.	.	.	.	3	21
EA	***Epilobietea angustifolii***																	
	Eupatorium cannabinum	E1	.	.	.	.	+	.	.	.	.	.	r	+	.	.	3	21
	Tussilago farfara	E1	.	.	.	.	.	.	.	.	.	r	.	.	.	.	1	7
EP	***Erico-Pinetea, Festuco-Brometea***																	
	Molinia arundinacea	E1	+	+	.	.	.	1	+	2	1	.	+	+	.	2	9	64
	Erica carnea	E1	.	.	.	.	+	.	.	.	r	.	.	+	r	.	4	29
	Buphthalmum salicifolium	E1	.	.	.	.	1	.	.	.	.	r	.	.	.	.	2	14
	Carex ornithopoda	E1	.	+	.	.	.	.	.	.	.	+	.	.	.	.	2	14
	Cirsium erisithales	E1	.	.	.	.	.	.	.	.	.	+	.	.	.	.	1	7
VP	***Vaccinio-Piceetea***																	
	Veronica urticifolia	E1	.	.	+	+	.	.	.	.	.	.	.	.	.	.	2	14
	Aposeris foetida	E1	.	.	.	.	.	.	.	.	.	.	.	+	.	.	1	7
	Gentiana asclepiadea	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	7
AF	***Aremonio-Fagion, Erythronio-Carpinion***																	
	Cyclamen purpurascens	E1	.	.	.	.	+	.	.	.	.	.	.	.	.	.	1	7
	Primula vulgaris	E1	.	.	.	.	+	.	.	.	.	.	.	.	.	.	1	7

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	19	11	12	13	14	Pr.	Fr.
TA	***Tilio-Acerion***																	
	Aruncus dioicus	E1	.	.	.	.	.	.	.	.	.	.	+	.	.	.	1	7
FS	***Fagetalia sylvaticae***																	
	Galium laevigatum	E1	.	+	+	.	+	.	.	.	.	.	+	.	+	r	6	43
	Salvia glutinosa	E1	.	+	+	+	+	.	.	.	.	.	.	.	.	.	4	29
	Mycelis muralis	E1	.	.	.	.	+	.	.	.	.	.	.	.	.	.	1	7
	Fagus sylvatica	E1	.	.	.	.	.	r	.	.	.	.	.	.	.	.	1	7
QP	***Quercetalia pubescenti-petraeae***																	
	Carex flacca	E1	.	.	.	.	.	+	.	1	1	.	.	1	.	.	4	29
	Ostrya carpinifolia	E2a	.	+	.	.	.	.	.	.	.	.	.	.	.	.	1	7
QF	***Querco-Fagetea***																	
	Hedera helix	E1	.	.	.	+	+	.	.	.	.	.	.	.	.	.	2	14
	Carex digitata	E1	.	.	+	.	.	.	.	.	.	.	.	.	.	.	1	7
	Clematis vitalba	E1	.	.	.	.	.	.	.	.	.	.	.	+	.	.	1	7
ML	**Mosses (Mahovi)**																	
	Exertotheca crispa (Neckera crispa)	E0	.	.	.	.	1	.	.	.	.	.	.	.	.	.	1	7
	Seligera trifaria	E0	.	.	.	.	.	.	.	+	.	.	.	.	.	.	1	7
	Dichodontium pellucidum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	7
	Didymodon fallax	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	7
	Tortella tortuosa	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	7

Legend - Legenda

L Limestone - apnenec
Ch Chert - roženec
D Dolomite - dolomit
Cl Claystone - glinavec
M Marlstone - laporovec
Li Lithosol - kamnišče
Pr. Presence (number of relevés in which the species is presented) - število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % - frekvenca v %

Table 2 (Preglednica 2): *Violo biflorae-Astrantietum carniolicae*

Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Database number of relevé (Delovna številka popisa)		257807	269661	273173	282738	282739	258917	269646	273153	274072	274078	278144	286378	269643	269647	277320	288035	268929	277777	
Elevation in m (Nadmorska višina v m)		930	880	1175	565	565	985	1130	1130	1285	1300	1350	1200	925	1130	1182	540	550	697	
Aspect (Lega)		N	NW	NW	NW	NW	N	N	NW	N	N	NW	NE	N	N	NW	N	NEE	N	
Slope in degrees (Nagib v stopinjah)		80	80	80	80	80	80	85	80	80	95	90	90	70	50	100	80	85	95	
Parent material (Matična podlaga)		L	L	D	D	D	D	L	DL	D	D	D	L	L	L	D	D	D	D	
Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	
Stoniness in % (Kamnitost v %)		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Cover of herb layer in % (Zastiranje zeliščne plasti v %):		30	50	30	30	40	40	40	25	40	20	40	30	60	80	30	30	25	30	
Cover of moss layer in % (Zastiranje mahovne plasti v %):		30	30	30	20	20	80	60	10	20	10	10	10	70	40	10	20	40	10	
Number of species (Število vrst)		16	14	24	16	14	11	24	27	28	32	24	19	27	23	14	22	22	24	
Relevé area (Velikost popisne ploskve)	m^2	10	10	10	10	10	4	10	10	15	20	15	10	10	10	10	10	10	15	
Date of taking relevé (Datum popisa)		8/11/2015	6/21/2017	9/19/2018	6/22/2020	6/22/2020	7/3/2015	6/21/2017	9/21/2018	7/27/2018	7/27/2018	6/14/2019	7/26/2021	6/21/2017	6/21/2017	7/10/2019	7/22/2021	10/9/2017	6/24/2019	
Locality (Nahajališče)		Zjabci	Trenta-Bela ladovec	Kot-Kotarica	Vintgar	Vintgar	Trenta-Zadnji-ca	Trenta-Lepoč	Zadnjica-Kanjavec	Loška Koritni-ca-jalovec	Loška Koritni-ca-jalovec	Trenta-Zapo-tok	Komna-Pekel	Trenta-Be-ladovec	Trenta-Lepoč	Strmec-Man-gart Gorenja	Trebuša Govci Otuška-Pri mlinu	Vojc izvir Krope		
Quadrant (Kvadrant)		9648/3	9648/2	9549/3	9650/2	9650/2	9648/2	9648/2	9648/2	9548/3	9548/3	9648/1	9748/2	9648/2	9648/2	9547/4	9949/3	9949/2	9649/3		
Coordinate GK Y (D-48)	m	400276	404242	414666	430243	430248	407689	404708	408369	397748	397754	399390	407214	404237	404699	392642	410883	420057	414612		
Coordinate GK X (D-48)	m	513180l	513664S	514032H	513955S	513957O	513709Q	513587S	513704Z	514311S	514311S	513858S	512743Z	513666I	513587G	514322H	509725G	510303H	513039S		
Diagnostic species of the association (Diagnostične vrste asociacije)																				Pr.	Fr.
AP *Astrantia carniolica*	E1	2	3	2	2	3	3	1	+	2	+	3	1	3	3	2	2	+	1	18	100
AP *Viola biflora*	E1	+	1	1	+	2	+	r	+	1	1	1	+	1	+	+	2	2	1	18	100
AP *Carex brachystachys*	E1	1	1	+	+	1	+	.	+	+	+	r	+	.	.	1	.	+	r	14	78
TR *Adenostyles glabra*	E1	+	+	1	+	1	.	+	r	+	r	.	.	1	3	.	.	.	+	12	67
AP *Paederota lutea*	E1	1	+	2	.	.	+	+	1	1	1	1	.	.	+	.	1	+	.	12	67
AP *Heliosperma pusillum*	E1	.	1	1	.	.	.	+	.	1	+	.	+	+	.	.	.	.	.	7	39
Differential species of lower units (Razlikovalnice nižjih enot)																					
AP *Palustriella commutata*	E0	1	.	2	2	2	4	+	.	.	.	.	.	.	.	.	+	.	.	7	38
AP *Hymenostylium recurvirostrum*	E0	+	.	1	.	1	4	1	.	.	.	.	+	.	.	.	.	.	+	7	38
EP *Rhodothamnus chamaecistus*	E1	.	.	.	.	.	.	.	+	1	1	+	+	.	.	.	1	.	.	6	33

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Pr.	Fr.
AP	*Marchantia quadrata (Preissia quadrata)*	E0	.	.	.	.	.	.	.	+	+	+	.	+	.	.	.	.	.	.	4	22
AP	***Astrantio carniolicae-Paederotion luteae***																					
	Orthothecium rufescens	E0	1	2	2	2	1	.	2	+	1	+	+	+	1	1	1	2	.	+	16	89
	Asplenium viride	E1	r	.	+	1	.	.	+	+	+	+	1	.	+	+	.	1	1	1	13	72
	Aster bellidiastrum	E1	.	.	+	.	.	.	+	1	+	+	.	.	+	+	1	1	+	+	11	61
	Fissidens dubius	E0	.	.	.	.	.	.	1	.	+	+	+	+	1	.	.	+	+	+	9	50
	Valeriana saxatilis	E1	+	.	.	.	.	.	.	+	1	1	+	1	.	.	1	1	.	.	8	44
	Cystopteris regia	E1	.	.	1	.	.	.	r	.	1	+	.	+	.	.	.	.	.	+	6	33
	Cystopteris fragilis	E1	.	.	.	1	+	.	2	.	.	.	+	.	.	+	.	.	.	+	6	33
	Pinguicula alpina	E1	r	.	.	.	.	.	+	.	.	.	.	+	.	.	.	+	.	.	4	22
	Valeriana tripteris	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	1	.	.	1	.	3	17
	Tofieldia calyculata	E1	.	.	.	.	.	+	.	r	.	.	.	.	.	.	.	1	.	.	3	17
	Hydrogonium croceum (Barbula crocea)	E0	.	.	.	.	.	.	.	.	+	+	.	.	.	.	.	+	.	.	3	17
	Apopellia endiviifolia (Pellia endiviifolia)	E0	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	+	2	11
	Cyrtomnium hymenophylloides	E0	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	2	11
PsSp	***Physoplexido comosae-Saxifragion petraeae***																					
	Campanula zoysii	E1	.	.	.	.	.	.	.	+	+	.	.	.	.	.	r	.	.	.	3	17
	Campanula carnica	E1	.	.	.	.	.	+	.	.	.	.	.	.	+	.	.	.	.	.	2	11
	Hieracium porrifolium	E1	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	1	6
	Campanula cespitosa	E1	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	1	6
	Phyteuma scheuchzeri subsp. *columnae*	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	1	6
PC	***Potentilletalia caulescentis***																					
	Campanula cochleariifolia	E1	.	.	1	.	.	.	.	+	+	.	.	1	.	+	1	.	.	.	6	33
	Arabis stellulata	E1	.	.	.	.	.	.	.	.	.	+	+	+	.	.	+	.	.	.	4	22
	Primula auricula	E1	.	+	.	.	.	.	r	.	r	.	r	.	.	.	.	.	.	.	4	22
	Potentilla caulescens	E1	+	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	2	11
	Hieracium humile	E1	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	6
	Potentilla clusiana	E1	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	6
AT	***Asplenietea trichomanis***																					
	Asplenium ruta-muraria	E1	.	.	.	.	.	.	.	.	+	+	+	.	.	.	.	.	.	+	5	28
	Asplenium trichomanes	E1	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	+	3	17
	Moehringia muscosa	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Kernera saxatilis	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	r	.	.	1	6
AC	***Arabidetalia caeruleae***																					
	Soldanella minima	E1	.	.	+	.	.	.	.	.	.	.	.	.	+	+	.	.	.	.	3	17
TR	***Thlaspietea rotundifolii***																					
	Hieracium bifidum	E1	.	.	.	.	.	.	.	+	.	.	.	.	+	.	+	.	.	r	4	22
	Gymnocarpium robertianum	E1	.	.	.	.	.	.	.	+	.	.	+	1	.	.	.	.	.	+	4	22
	Gypsophila repens	E1	.	.	.	.	.	.	.	+	r	+	.	.	.	.	.	.	.	.	3	17
	Festuca nitida	E1	.	.	+	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	2	11
	Cystopteris montana	E1	.	.	.	.	.	.	r	.	.	.	.	.	.	1	.	.	.	.	2	11
	Saxifraga caesia	E1	.	.	.	.	.	.	.	.	.	r	.	.	.	.	+	.	.	.	2	11
	Arabis alpina	E1	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	1	6
	Athamanta cretensis	E1	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	1	6
	Biscutella laevigata	E1	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	1	6

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Pr.	Fr.
	Cerastium carinthiacum	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	1	6
	Trisetum argenteum	E1	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	1	6
	Petasites paradoxus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	1	6
MC	***Montio-Cardaminetea***		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
	Conocephalum conicum	E0	+	1	.	.	+	.	1	.	.	.	+	.	.	.	.	1	3	1	8	44
	Cratoneuron filicinum	E0	.	.	+	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	2	11
	Ptychostomum pseudotriquetrum (Bryum pseudotriquetrum)	E0	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Oxyrrhynchium schleicheri	E0	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	1	6
	Cololejeunea calcarea	E0	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	1	6
CD	***Caricetalia davallianae***																					
	Campylium stellatum	E0	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	1	6
ES	***Elyno-Seslerietea***																					
	Sesleria caerulea	E1	1	1	+	.	.	.	.	1	r	.	+	.	.	1	.	.	.	.	7	39
	Carex firma	E1	.	.	+	.	.	.	.	+	r	r	r	.	.	.	.	.	.	.	5	28
	Laserpitium peucedanoides	E1	.	+	.	.	.	.	.	r	.	.	.	.	.	+	.	1	.	.	4	22
	Carex ferruginea	E1	.	.	+	.	.	.	+	.	r	.	.	.	.	.	.	.	.	.	3	17
	Achillea atrata	E1	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	1	6
	Phyteuma orbiculare	E1	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Ranunculus hybridus	E1	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	1	6
	Globularia cordifolia	E1	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	1	6
	Selaginella selaginoides	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	1	6
BA	***Betulo-Alnetea***																					
	Salix appendiculata	E2a	+	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	2	11
MuA	***Mulgedio-Aconitetea***																					
	Saxifraga rotundifolia	E1	.	.	.	+	.	.	+	.	.	.	.	.	.	.	.	.	.	+	3	17
	Aconitum lycoctonum subsp. *ranunculifolium*	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	1	6
	Chaerophyllum hirsutum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	1	6
	Aconitum degenii subsp. paniculatum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	r	1	6
EP	***Erico-Pinetea***																					
	Calamagrostis varia	E1	1	+	.	+	.	+	.	+	+	+	r	.	1	+	.	1	r	.	12	67
	Rhododendron hirsutum	E1	.	.	+	.	.	.	.	.	+	.	+	+	.	.	.	.	.	.	4	22
	Erica carnea	E1	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	1	6
	Asperula aristata	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	1	6
VP	***Vaccinio-Piceetea***																					
	Veronica urticifolia	E1	.	+	.	1	1	.	.	.	.	.	.	.	1	+	.	.	+	+	7	39
	Saxifraga cuneifolia	E1	.	.	.	.	.	.	.	.	.	.	+	.	+	.	.	.	.	+	3	17
	Oxalis acetosella	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	2	11
	Homogyne sylvestris	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	r	1	6
AF	***Aremonio-Fagion***																					
	Cardamine trifolia	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Anemone trifolia	E1	.	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	1	6
	Cyclamen purpurascens	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	1	6
TA	***Tilio-Acerion***																					
	Geranium robertianum	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	+	.	.	+	.	3	17
	Phyllitis scolopendrium	E1	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	2	11

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Pr.	Fr.
	Aruncus dioicus	E1	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	+	.	2	11
FS	***Fagetalia sylvaticae***																					
	Galeobdolon flavidum	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	1	.	1	+	+	5	28
	Fagus sylvatica	E1	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	1	6
	Mycelis muralis	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	r	.	.	1	6
	Galium laevigatum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	r	.	1	6
QF	***Querco-Fagetea***																					
	Carex digitata	E1	.	.	.	.	+	.	.	.	.	.	.	.	+	.	.	+	.	.	3	17
ML	**Moses (Mahovi)**																					
	Ctenidium molluscum	E0	.	.	.	.	.	.	1	.	.	+	1	.	2	2	.	.	+	.	6	33
	Tortella tortuosa	E0	.	.	.	.	.	.	.	+	1	+	.	.	.	.	+	.	.	.	4	22
	Plagiomnium undulatum	E0	.	.	.	.	+	.	.	.	.	.	.	.	+	.	.	.	.	.	2	11
	Pedinophyllum interruptum	E0	.	.	.	.	.	.	.	.	.	+	.	+	.	.	.	.	.	.	2	11
	Mnium thomsonii	E0	.	.	.	.	.	.	.	.	.	+	.	.	1	.	.	.	.	.	2	11
	Plagiochila porelloides	E0	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	.	2	11
	Exertotheca crispa (Neckera crispa)	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	1	2	11
	Pohlia wahlenbergii	E0	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Lophozia sp.	E0	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	1	6
	Bryum sp.	E0	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	1	6
	Metzgeria conjugata	E0	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	1	6
	Serpoleskea confervoides (Amblystegium confervoides)	E0	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	1	6
	Campylophyllum halleri	E0	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	1	6
	Lophozia obtusa	E0	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	1	6
	Amblystegium serpens	E0	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	1	6
	Didymodon acutus	E0	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	1	6
	Myurella julacea	E0	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	1	6
	Thamnobryum alopecurum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	1	6

Legend - Legenda

L Limestone - apnenec
D Dolomite - dolomit
Li Lithosol - kamnišče
Pr. Presence (number of relevés in which the species is presented) - število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % - frekvenca v %

Table 3 (Preglednica 3): *Palustriello commutati-Astrantietum carniolicae*

Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18				
Database number of relevé (Delovna številka popisa)		2872209	2872210	2872211	2872213	2871543	2750153	2872207	2871688	2872216	2871615	2871650	2871623	2781233	2871764	2871768	2871770	2817722	2822277				
Elevation in m (Nadmorska višina v m)		320	320	320	320	340	350	350	450	300	450	450	450	400	750	750	770	785	590				
Aspect (Lega)		N	N	N	N	NW	N	NW	SE	SW	NW	NW	SE	NW	SW	SW	S	S	se				
Slope in degrees (Nagib v stopinjah)		95	85	70	80	80	90	80	90	95	90	90	80	95	70	70	70	95	80				
Parent material (Matična podlaga)		DCh	DCh	DCh	DCh	LMCh	LMCh	LMCh	LMCh	LCICh	LMCh	LMCh	LMCh	LMCh	LMCh	LMCh	LMCh	LM	LMCh				
Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li				
Stoniness in % (Kamnitost v %)		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100				
Cover of herb layer in % (Zastiranje zeliščne plasti v %):		35	30	30	30	25	30	30	30	30	30	20	40	35	60	30	60	30	20				
Cover of moss layer in % (Zastiranje mahovne plasti v %):		20	10	10	5	40	70	60	40	70	50	30	70	40	60	30	60	50	70				
Number of species (Število vrst)		32	17	19	14	14	20	13	20	25	25	20	12	18	23	8	11	9	12				
Relevé area (Velikost popisne ploskve)	m^2	10	10	10	10	10	10	10	10	10	20	10	10	10	20	40	10	6	10				
Date of taking relevé (Datum popisa)		6/18/2021	6/18/2021	6/18/2021	6/18/2021	8/11/2021	7/1/2018	6/18/2021	8/11/2021	6/18/2021	8/11/2021	8/11/2021	8/11/2021	6/26/2019	6/24/2020	6/24/2020	6/24/2020	6/24/2020	8/21/2020				
Locality (Nahajališče)		Velike Luti	Velike Luti	Velike Luti	Velike Luti	Lisec-Knežica	Liščak	Liščak	Liščak-Sopot	Velike Luti	Liščak	Liščak-Sopot	Liščak-Sopot	Liščak-Dresela	Liščak-Sopot	Liščak-Sopot	Liščak-Sopot	Liščak-Sopot	Liščak-Zališčar jeva grapa				
Quadrant (Kvadrant)		9849/1	9849/1	9849/1	9849/1	9849/1	9849/1	9849/1	9849/1	9849/1	9849/1	9849/1	9849/1	9849/1	9749/3	9749/3	9749/3	9749/3	9749/3				
Coordinate GK Y (D-48)	m	5107552	5107601	5107602	5107864	5107078	5107034	5107016	5117644	5116513	5117654	5117654	5117650	5117352	5118602	5118604	5118620	5118648	5118083				
Coordinate GK X (D-48)	m	4107796	4107614	4107602	4107864	4103314	4108974	4108884	4112834	4110324	4113504	4113324	4113064	4111304	4117064	4117224	4117184	4117164	4112414				
Diagnostic species of the association (Diagnostične vrste asociacije)																					Pr.	Fr.	
AP *Astrantia carniolica*	E1	3	2	2	1	1	3	3	1	1	2	2	1	3	1	1	1	+	2		18	100	
AP *Palustriella commutata*	E0	2	·	·	·	3	4	3	3	3	3	2	4	2	3	3	4	3	1		15	83	
EP *Calamagrostis varia*	E1	·	·	+	r	+	·	+	+	1	1	1	+	·	+	+	1	1	+		14	78	
EP *Molinia arundinacea*	E1	1	+	1	1	·	·	·	·	+	·	·	·	·	1	1	·	1	·		8	44	
Diagnostic species of lower units (Diagnostične vrste nižjih enot)																							
AP *Aster bellidiastrum*	E1	2	2	1	1	2	·	·	·	·	·	·	·	·	·	·	·	·	·		5	28	
AP *Hydrogonium croceum* (*Barbula crocea*)	E0	+	1	2	+	+	·	·	·	·	·	+	·	·	·	·	·	·	·		6	33	
ES *Carex mucronata*	E1	+	+	+	1	·	·	·	·	·	·	·	·	·	·	·	·	·	·		4	22	
AP *Valeriana saxatilis*	E1	+	+	+	r	·	·	·	·	·	·	·	·	·	·	·	·	·	·		4	22	

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Pr.	Fr.
AP	***Astrantio carniolicae-Paederotion luteae***																					
	Hymenostylium recurvirostrum	E0	1	.	.	.	.	2	.	1	3	1	1	3	3	.	1	1	2	1	12	67
	Carex brachystachys	E1	.	.	+	+	.	+	+	.	+	1	+	.	+	+	.	+	+	.	11	61
	Apopellia endiviifolia (Pellia endiviifolia)	E0	1	+	.	.	.	1	.	1	1	1	1	+	.	1	.	.	.	1	10	56
	Orthothecium rufescens	E0	+	1	.	+	+	.	+	.	.	1	1	.	1	+	.	.	.	.	9	50
	Pinguicula alpina	E1	1	+	+	.	.	.	.	.	+	+	.	.	.	.	.	.	.	.	5	28
	Eucladium verticillatum	E0	.	.	.	.	.	+	1	1	+	.	.	.	+	.	.	.	.	.	5	28
	Paederota lutea	E1	1	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	4	22
	Fissidens dubius	E0	1	.	.	.	.	.	.	.	.	+	+	.	.	.	.	.	.	.	3	17
	Tofieldia calyculata	E1	+	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	17
	Asplenium viride	E1	.	.	.	.	.	.	.	.	+	2	.	.	+	.	.	.	.	.	3	17
	Valeriana tripteris	E1	.	.	.	.	+	.	.	.	.	.	+	.	.	.	.	.	.	.	2	11
	Marchantia quadrata (Preissia quadrata)	E0	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	1	5
PsSp	***Physoplexido comosae-Saxifragion petraeae***																					
	Hieracium pospichalii	E1	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	1	6
	Saxifraga crustata	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	6
	Hieracium porrifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	6
AT	***Asplenietea trichomanis***																					
	Asplenium trichomanes	E1	.	.	.	.	.	+	+	+	.	.	+	.	+	.	.	.	.	.	5	28
	Kernera saxatilis	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	1	6
	Polypodium interjectum	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	1	6
	Asplenium ruta-muraria	E1	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	1	6
TR	***Thlaspietea rotundifolii***																					
	Adenostyles glabra	E1	.	.	.	.	.	.	.	+	.	1	+	2	.	3	1	3	2	.	8	44
	Hieracium bifidum	E1	.	.	+	.	.	.	.	.	+	.	.	.	.	.	.	.	.	+	3	17
	Gymnocarpium robertianum	E1	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Peucedanum verticillare	E1	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Achnatherum calamagrostis	E1	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Petasites paradoxus	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	1	6
MC	***Montio-Cardaminetea***																					
	Conocephalum conicum	E0	+	.	.	.	.	1	.	1	1	2	+	.	+	1	.	1	.	4	10	56
	Oxyrrhynchium hians	E0	.	.	.	.	.	.	+	+	.	.	.	.	+	+	.	.	.	.	4	22
	Cratoneuron filicinum	E0	+		+	.	.	.	.	.	.	.	.	.	.	3	.	.	.	.	3	17
	Brachythecium rivulare	E0	+	.	.	.	.	.	.	.	+	.	.	.	.	+	.	.	.	.	3	17
	Ptychostomum pseudotriquetrum (Bryum pseudotriquetrum)	E0	+	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	2	11
	Oxyrrhynchium schleicheri	E0	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Gymnostomum aeruginosum	E0	.	.	.	.	.	.	2	.	.	.	.	.	.	.	.	.	.	.	1	6
	Rhynchostegium riparioides (Platyhypnidium riparioides)	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	1	6
CD	***Caricetalia davallianae***																					
	Campylium stellatum	E0	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	1	6
ES	***Elyno-Seslerietea***																					
	Sesleria caerulea	E1	1	1	+	+	.	.	.	.	.	1	.	.	.	.	.	+	.	.	6	33
	Betonica alopecuros	E1	r	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	11
MA	***Molinion, Molinio-Arrhenatheretea***																					
	Angelica sylvestris	E1	r	.	.	.	.	.	.	.	+	+	.	.	.	.	.	.	.	.	3	17

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Pr.	Fr.
	Crepis paludosa	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	1	.	1	.	.	3	17
	Caltha palustris	E1	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	1	6
BA	***Betulo-Alnetea***																					
	Salix appendiculata	E2a	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
MuA	***Mulgedio-Aconitetea***																					
	Aconitum angustifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	1	6
	Chaerophyllum hirsutum	E1	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Senecio ovatus	E1	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	1	6
EA	***Epilobietea angustifolii, Trifolio-Geranietea***																					
	Eupatorium cannabinum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	+	+	+	.	4	22
	Verbascum lanatum	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	1	6
	Solanum dulcamara	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	1	6
EP	***Erico-Pinetea***																					
	Buphthalmum salicifolium	E1	.	.	.	.	.	.	.	.	.	+	r	.	.	.	.	.	.	+	3	17
	Cirsium erisithales	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	r	.	.	.	.	1	6
VP	***Vaccinio-Piceetea***																					
	Veronica urticifolia	E1	.	.	.	+	+	+	+	+	1	+	.	.	+	1	.	+	.	+	11	61
	Gentiana asclepiadea	E1	r	.	+	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	3	17
	Homogyne sylvestris	E1	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Aposeris foetida	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	1	6
	Saxifraga cuneifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	1	6
AF	***Aremonio-Fagion, Erythronio-Carpinion***																					
	Cardamine trifolia	E1	.	.	.	.	.	.	.	.	.	.	.	+	.	+	.	.	.	.	2	11
	Anemone trifolia	E1	r	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Lamium orvala	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	1	6
TA	***Tilio-Acerion***																					
	Aruncus dioicus	E1	.	.	.	.	.	.	.	+	+	+	.	+	1	.	.	.	.	.	5	28
	Geranium robertianum	E1	.	.	.	.	.	.	.	+	+	.	.	.	.	+	.	.	.	.	3	17
	Phyllitis scolopendrium	E1	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	.	.	.	2	11
	Ulmus glabra	E1	.	.	.	.	.	.	.	.	.	+	+	.	.	.	.	.	.	.	2	11
	Polystichum aculeatum	E1	.	.	.	.	.	.	.	.	.	.	+	.	+	.	.	.	.	.	2	11
	Acer pseudoplatanus	E1	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	1	6
AI	***Alnion incanae***																					
	Knautia drymeia subsp. *intermedia*	E1	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	.	2	11
	Cardamine impatiens		.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	1	6
FS	***Fagetalia sylvaticae***																					
	Galium laevigatum	E1	+	+	.	+	+	.	+	+	.	+	+	.	.	.	.	.	.	.	8	44
	Galeobdolon flavidum	E1	.	+	.	.	.	1	+	1	+	.	.	1	+	.	.	.	.	.	7	39
	Brachypodium sylvaticum	E1	.	.	.	.	.	.	.	+	.	.	.	1	+	.	.	.	.	.	3	17
	Petasites albus	E1	.	.	.	.	.	+	1	.	.	.	.	.	.	.	.	.	.	.	2	11
	Mycelis muralis	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	+	.	.	.	.	2	11
	Fraxinus excelsior	E1	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Dryopteris filix-mas	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	1	6
	Salvia glutinosa	E1	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	1	6
QP	***Quercetalia pubescenti-petraeae***																					
	Carex flacca	E1	.	.	+	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	2	11

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Pr.	Fr.
QF	***Querco-Fagetea***																					
	Hedera helix	E1	.	.	.	.	.	r	.	+	.	.	.	.	.	.	.	.	.	.	2	11
	Carex digitata	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	+	2	11
	Potentilla erecta	E1	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
ML	**Mosses (Mahovi)**																					
	Plagiomnium rostratum	E0	+	.	.	.	.	+	.	+	.	.	.	.	.	.	.	.	.	.	3	17
	Hygrohypnum luridum	E0	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	11
	Mnium marginatum	E0	.	.	.	.	.	+	.	+	.	.	.	.	.	.	.	.	.	.	2	11
	Jungermannia atrovirens	E0	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Lophozia sp.	E0	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Dichodontium pellucidum	E0	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Trichostomum crispulum	E0	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Chionoloma tenuirostre (Oxystegus tenuirostre)	E0	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Microlejeunea ulicina	E0	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Alleniella complanata (Neckera complanata)	E0	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Ctenidium molluscum	E0	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	1	6
	Plagiochila porelloides	E0	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	1	6

Legend - Legenda

L Limestone - apnenec
Ch Chert - roženec
D Dolomite - dolomit
Cl Claystone - glinavec
M Marlstone - laporovec
Li Lithosol - kamnišče
Pr. Presence (number of relevés in which the species is presented) - število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % - frekvenca v %

Table 4 (Preglednica 4): ***Palustriello commutati-Veronicetum urticifoliae, Cratoneuretum commutati***

Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10				1
Database number of relevé (Delovna številka popisa)		275014	275016	282695	282718	287143	281769	282701	282702	287148	287167				287174
Elevation in m (Nadmorska višina v m)		350	350	530	650	940	770	540	540	870	450				350
Aspect (Lega)		N	N	NEE	SEE	SW	SE	NW	NWW	S	NW				NW
Slope in degrees (Nagib v stopinjah)		70	90	90	85	85	80	80	80	80	95				90
Parent material (Matična podlaga)		LMCh	LMCh	LCh	DChCl	LClCh	LMCh	LCh	LCh	Cl	LMCh				LMCh
Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li	Li				Hy
Stoniness in % (Kamnitost v %)		100	100	100	100	100	100	100	100	100	100				100
Cover of herb layer in % (Zastiranje zeliščne plasti v %):		40	40	30	30	30	50	30	10	10	20				
Cover of moss layer in % (Zastiranje mahovne plasti v %):		30	80	30	40	40	30	70	90	80	80				80
Number of species (Število vrst)		17	21	28	20	23	9	25	16	13	20				3
Relevé area (Velikost popisne ploskve)	m^2	10	10	10	15	20	6	15	15	5	20				10
Date of taking relevé (Datum popisa)		7/1/2018	7/1/2018	9/15/2020	9/15/2020	8/10/2021	6/24/2020	9/15/2020	9/15/2020	8/10/2021	8/11/2021				6/18/2021
Locality (Nahajališče)		Liščak	Liščak	Liščak-Zališčarjeva grapa	Liščak	Liščak povirje	Lisec-Sopot	Liščak	Liščak	Liščak povirje	Lisec-Sopot				Liščak
Quadrant (Kvadrant)		9849/1	9849/1	9749/3	9749/3	9749/3	9749/3	9749/3	9749/3	9749/3	9849/1				9849/1
Coordinate GK Y (D-48)	m	410909	410878	411347	411149	411739	411715	411461	411464	411706	411290				410926
Coordinate GK X (D-48)	m	5117044	5117008	5117946	5118055	5118916	5118613	5117965	5117984	5118799	5117614				5117053
	Diagnostic species of the association (Dignostične vrste asociacije)											Pr.	Fr.		
AP	*Palustriella commutata*	E0	2	2	1	3	1	1	3	5	4	4	10	100	3
MC	*Conocephalum conicum*	E0	2	2	2	3	3	+	+	+	+	1	10	100	
VP	*Veronica urticifolia*	E1	3	3	+	1	+	1	+	+	+	+	10	100	
AT	*Asplenium trichomanes*	E1	1	+	2	1	1	+	+	+	+	+	10	100	
FS	*Galeobdolon flavidum*	E1	.	1	+	1	1	.	2	.	1	1	7	70	
MuA	*Senecio ovatus*	E1	.	.	+	1	+	.	+	+	.	.	5	50	
AP	***Astrantio carniolicae-Paederotion luteae***														
	Hymenostylium recurvirostrum	E0	1	.	+	.	.	.	2	1	.	1	5	50	
	Apopellia endiviifolia (Pellia endiviifolia)	E0	.	.	1	+	.	.	+	+	+	+	6	60	
	Fissidens dubius	E0	.	.	+	.	.	.	1	+	.	1	4	40	
	Valeriana tripteris	E1	.	.	+	.	r	.	.	+	.	.	3	30	
	Astrantia carniolica	E1	1	.	.	.	.	.	.	+	.	.	2	20	
	Cystopteris fragilis	E1	.	.	.	1	2	.	.	.	.	.	2	20	
	Asplenium viride	E1	+	.	.	.	.	.	.	.	.	.	1	10	
	Eucladium verticillatum	E0	.	.	+	.	.	.	.	.	.	.	1	10	4
	Carex brachystachys	E1	.	.	+	.	.	.	.	.	.	.	1	10	
	Paederota lutea	E1	.	.	.	.	.	1	.	.	.	.	1	10	
	Orthothecium rufescens	E0	.	.	.	.	.	.	1	.	.	.	1	10	
PsSp	***Physoplexido comosae-Saxifragion petraeae***														
	Campanula carnica	E1	.	.	.	.	r	1	.	.	+	.	3	30	
PC	***Potentilletalia caulescentis***														
	Saxifraga crustata	E1	.	.	.	.	.	.	.	+	.	.	1	10	
AT	***Asplenietea trichomanis***														
	Asplenium ruta-muraria	E1	.	.	+	.	.	+	+	.	.	.	3	30	

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	Pr.	Fr.	1
TR	***Thlaspietea rotundifolii***														
	Adenostyles glabra	E1	+	.	.	+	.	1	+	.	+	.	5	50	
	Hieracium bifidum	E1	.	.	+	.	.	.	.	.	.	.	1	10	
	Gymnocarpium robertianum	E1	.	.	.	r	.	.	.	.	.	.	1	10	
MC	***Montio-Cardaminetea***														
	Oxyrrhynchium schleicheri	E0	.	.	1	+	+	.	1	.	.	.	4	40	
	Oxyrrhynchium hians	E0	.	.	+	.	.	.	+	+	.	1	4	40	
	Brachythecium rivulare	E0	.	.	.	+	+	.	.	.	.	.	2	20	
	Rhynchostegium riparioides	E0	.	.	.	.	1	.	.	.	1	.	2	20	+
	Cratoneuron filicinum	E0	.	.	.	.	.	.	.	.	+	.	1	10	
CD	***Caricetalia davallianae***														
	Calliergonella lindbergii	E0	.	.	+	.	.	.	.	.	.	.	1	10	
ES	***Elyno-Seslerietea***														
	Sesleria caerulea	E1	.	.	.	.	.	2	.	.	.	.	1	10	
EA	***Epilobietea angustifolii***														
	Rubus idaeus	E1	.	+	.	.	.	.	.	.	.	.	1	10	
TG	***Trifolio-Geranietea***														
	Campanula rapunculoides	E1	.	.	+	.	.	.	+	.	.	.	2	20	
	Digitalis grandiflora	E1	.	.	+	.	.	.	.	.	.	.	1	10	
EP	***Erico-Pinetea, Festuco-Brometea***														
	Calamagrostis varia	E1	.	.	.	.	+	.	.	.	.	+	2	20	
	Cirsium erisithales	E1	.	.	.	.	+	.	.	.	.	.	1	10	
	Buphthalmum salicifolium	E1	.	.	.	.	.	.	+	.	.	.	1	10	
VP	***Vaccinio-Piceetea***														
	Oxalis acetosella	E1	+	.	+	.	.	.	.	.	.	+	3	30	
	Saxifraga cuneifolia	E1	.	+	.	.	.	.	1	.	.	.	2	20	
	Solidago virgaurea	E1	.	.	.	+	r	.	.	.	.	.	2	20	
	Calamagrostis arundinacea	E1	.	+	.	.	.	.	.	.	.	.	1	10	
AF	***Aremonio-Fagion, Erythronio-Carpinion***														
	Cardamine trifolia	E1	+	+	.	.	.	.	1	1	+	1	6	60	
	Lamium orvala	E1	+	.	.	.	.	.	.	.	+	.	2	20	
	Primula vulgaris	E1	.	.	.	.	+	.	.	.	.	.	1	10	
TA	***Tilio-Acerion***														
	Geranium robertianum	E1	.	.	.	1	+	.	.	.	.	+	3	30	
	Aruncus dioicus	E1	.	+	.	.	.	.	+	.	.	.	2	20	
	Phyllitis scolopendrium	E1	.	1	.	.	.	.	.	.	.	1	2	20	
	Polystichum setiferum	E1	.	+	.	.	.	.	.	.	.	.	1	10	
	Polystichum x wirtgenii	E1	.	+	.	.	.	.	.	.	.	.	1	10	
	Ulmus glabra	E1	.	+	.	.	.	.	.	.	.	.	1	10	
	Circaea x intermedia	E1	.	.	.	.	+	.	.	.	.	.	1	10	
FS	***Fagetalia sylvaticae***														
	Mycelis muralis	E1	.	+	.	.	+	.	+	+	.	.	4	40	
	Galium laevigatum	E1	.	+	.	.	.	.	+	.	.	+	3	30	
	Petasites albus	E1	+	1	.	.	.	.	.	.	.	.	2	20	
	Fraxinus excelsior	E1	+	+	.	.	.	.	.	.	.	.	2	20	
	Salvia glutinosa	E1	.	.	.	+	+	.	.	.	.	.	2	20	
	Festuca altissima	E1	+	.	.	.	.	.	.	.	.	.	1	10	
	Asarum europaeum subsp. *caucasicum*	E1	.	.	+	.	.	.	.	.	.	.	1	10	
	Campanula trachelium	E1	.	.	.	.	+	.	.	.	.	.	1	10	
	Poa nemoralis	E1	.	.	.	.	+	.	.	.	.	.	1	10	
	Sambucus nigra	E2a	.	.	.	.	.	.	.	.	.	+	1	10	
QP	***Quercetalia pubescenti-petraeae***														
	Sesleria autumnalis	E1	.	.	+	+	+	.	.	.	.	.	3	30	
	Arabis turrita	E1	.	.	+	+	.	.	.	.	.	.	2	20	
QF	***Querco-Fagetea***														
	Hedera helix	E1	1	+	+	.	.	.	+	+	.	.	5	50	
	Carex digitata	E1	1	.	+	+	.	.	+	.	.	.	4	40	
	Veratrum nigrum	E1	+	.	.	.	.	.	.	.	.	.	1	10	
	Clematis vitalba	E1	.	.	.	+	.	.	.	.	.	.	1	10	
ML	**Mosses (Mahovi)**														
	Plagiomnium rostratum	E0	.	.	+	.	.	.	+	+	.	+	4	40	
	Thamnobryum alopecurum	E0	.	2	.	.	.	.	+	.	.	1	3	30	

Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	Pr.	Fr.	1
Mnium thomsonii	E0	.	.	1	.	.	.	.	.	.	1	2	20	
Plagiomnium undulatum	E0	.	2	.	.	.	.	.	.	.	.	1	10	
Tortella tortuosa	E0	.	.	+	.	.	.	.	.	.	.	1	10	
Mnium stellare	E0	.	.	.	1	.	.	.	.	.	.	1	10	
Pedinophyllum interruptum	E0	.	.	.	.	.	.	.	.	.	+	1	10	

Legend - Legenda
L Limestone - apnenec
Ch Chert - roženec
D Dolomite - dolomit
Cl Claystone - glinavec
M Marlstone - laporovec
Li Lithosol - kamnišče
Hy Hygromorphic soil - higromorfna tla
Pr. Presence (number of relevés in which the species is presented) - število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % - frekvenca v %

Table 5 (Preglednica 5): ***Campanulo cespitosae-Saxifragetum aizoidis achnatheretosum calamagrostis***

Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10		
Database number of relevé (Delovna številka popisa)		281776	282704	282705	282709	282706	282708	282714	282707	282711	282715		
Elevation in m (Nadmorska višina v m)		740	750	740	725	740	730	750	735	785	750		
Aspect (Lega)		SE	SSW	S	S	W	S	SW	S	SW	NE		
Slope in degrees (Nagib v stopinjah)		70	80	80	90	70	80	80	70	75	80		
Parent material (Matična podlaga)		LMCh	LChCl	LChCl	LChCl	LChCl	LChCl	LChCl	LChCl	LChCl	LChCl		
Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li	Li		
Stoniness in % (Kamnitost v %)		100	100	100	100	100	100	100	100	100	100		
Cover of shrub layer in % (Zastiranje grmovne plasti v %):													
Cover of herb layer in % (Zastiranje zeliščne plasti v %):		40	30	30	40	40	60	30	50	60	20		
Cover of moss layer in % (Zastiranje mahovne plasti v %):		5	10	5	20	20	10	20	15	20	10		
Number of species (Število vrst)		17	19	10	13	12	14	9	18	20	15		
Relevé area (Velikost popisne ploskve)	m^2	10	10	10	10	10	10	10	10	10	10		
Date of taking relevé (Datum popisa)		6/24/2020	9/15/2020	9/15/2020	9/15/2020	9/15/2020	9/15/2020	9/15/2020	9/15/2020	9/15/2020	9/15/2020		
Locality (Nahajališče)		Lisec-Gradnikova grapa	Liščak-Luknova grapa	Liščak-Luknova grapa	Liščak-Luknova grapa	Liščak-Luknova grapa	Liščak-Luknova grapa	Liščak-Luknova grapa	Liščak-Luknova grapa	Liščak-Luknova grapa	Liščak-Luknova grapa		
Quadrant (Kvadrant)		9749/3	9849/1	9849/1	9849/1	9849/1	9849/1	9849/1	9849/1	9849/1	9849/1		
Coordinate GK Y (D-48)	m	411516	412004	411987	411951	411991	411961	412003	411979	412052	412019		
Coordinate GK X (D-48)	m	5118549	5117841	5117843	5117838	5117844	5117839	5117845	5117845	5117848	5117826		
Diagnostic species of the association (Diagnostične vrste asociacije)												Pr.	Fr.
MC *Saxifraga aizoides*	E1	+	2	1	2	2	2	2	2	3	1	10	100
PcSp *Campanula cespitosa*	E1	1	1	+	1	1	1	+	1	1	1	10	100
EP *Molinia arundinacea*	E1	1	1	.	+	1	.	.	2	+	.	6	60
AP *Palustriella commutata*	E0	+	.	.	.	1	.	.	1	.	.	3	30
EP *Calamagrostis varia*	E1	.	.	.	.	.	.	+	.	.	.	1	10
Differential species of subassociation (Razlikovalnice subasociacije)													
TR *Achnatherum calamagrostis*	E1	+	1	2	2	3	4	2	1	1	1	10	100
ML *Tortella tortuosa*	E0	1	1	+	1	2	2	2	1	1	.	9	90
TR *Hieracium glaucum*	E1	.	+	+	+	+	+	+	+	+	+	9	90
PC *Saxifraga crustata*	E1	+	+	1	1	.	+	.	+	.	1	7	70
TG *Calamintha einseleana*	E1	.	+	+	1	1	1	.	+	r	.	7	70
AP ***Astrantio carniolicae-Paederotion luteae***													
Hymenostylium recurvirostrum	E0	+	.	.	.	.	.	.	.	+	.	2	20
Apopellia endiviifolia (Pellia endiviifolia)	E0	.	+	.	+	.	.	.	.	+	.	3	30
Hydrogonium croceum (Barbula crocea)	E0	.	.	.	+	.	.	.	.	+	.	2	20
Aster bellidiastrum	E1	.	.	.	.	+	.	.	.	.	.	1	10
PcSp ***Physoplexido comosae-Saxifragion petraeae***													
Hieracium porrifolium	E1	1	1	+	+	.	.	1	+	+	1	8	80
TR ***Thlaspietea rotundifolii***													
Hieracium bifidum	E1	.	.	.	.	.	.	.	+	r	1	3	30
Trisetum argenteum	E1	+	.	.	.	.	.	.	+	+	.	3	30
Petasites paradoxus	E1	.	.	.	.	.	+	.	.	.	.	1	10
Adenostyles glabra	E1	.	.	.	.	.	.	.	.	.	+	1	10
Hieracium dollineri	E1	.	.	.	.	.	.	.	.	.	+	1	10

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10		
ES	***Elyno-Seslerietea***													
	Sesleria caerulea	E1	.	.	.	.	.	.	.	+	1	1	3	30
	Carex ferruginea	E1	.	.	.	.	.	.	.	+	.	.	1	10
FB	***Festuco-Brometea***													
	Bromopsis erecta	E1	1	.	.	.	.	+	.	.	.	.	2	20
	Carlina acaulis	E1	.	.	.	.	.	+	.	.	r	.	2	20
	Brachypodium rupestre	E1	+	.	.	.	.	.	.	.	.	.	1	10
	Carex humilis	E1	+	.	.	.	.	.	.	.	.	.	1	10
	Buphthalmum salicifolium	E1	.	+	.	.	.	.	.	.	.	.	1	10
	Pimpinella saxifraga	E1	.	+	.	.	.	.	.	.	.	.	1	10
	Thymus praecox	E1	.	+	.	.	.	.	.	.	.	.	1	10
TG	***Trifolio-Geranietea***													
	Hypericum perforatum	E1	.	.	.	.	.	.	.	+	r	.	2	20
	Libanotis daucifolia	E1	+	.	.	.	.	+	.	.	.	.	2	20
EA	***Epilobietea angustifolii***													
	Eupatorium cannabinum	E1	.	r	.	.	.	.	.	+	.	.	2	20
	Tussilago farfara	E1	.	.	.	.	1	.	.	+	.	.	2	20
BA	***Betulo-Alnetea***													
	Salix appendiculata	E2a	.	.	.	+	.	.	+	.	.	.	2	20
EP	***Erico-Pinetea***													
	Epipactis atrorubens	E1	+	.	.	.	.	.	.	.	.	.	1	10
	Erica carnea	E1	.	.	.	.	.	.	.	.	.	+	1	10
VP	***Vaccinio-Piceetea***													
	Picea abies	E2a	.	r	.	.	.	.	.	.	.	.	1	10
	Larix decidua	E2a	.	.	r	.	.	.	.	.	.	.	1	10
	Veronica urticifolia	E1	.	.	.	.	.	.	.	.	.	+	1	10
TA	***Tilio-Acerion***													
	Geranium robertianum	E1	.	.	.	+	.	+	.	.	.	.	2	20
EC	***Erythronio-Carpinion***													
	Primula vulgaris	E1	.	r	.	.	.	.	.	.	.	.	1	10
QP	***Quercetalia pubescenti-petraeae***													
	Ostrya carpinifolia	E2a	.	+	1	+	+	.	.	1	+	.	6	60
	Fraxinus ornus	E3a	.	.	.	.	+	.	.	.	.	.	1	10
	Fraxinus ornus	E2a	+	.	.	.	.	+	+	.	1	+	5	50
	Sesleria autumnalis	E1	.	+	.	.	.	.	.	.	.	+	2	20
	Carex flacca	E1	+	.	.	.	.	.	.	.	.	.	1	10
ML	**Mosses (Mahovi)**													
	Pohlia wahlenbergii	E0	.	+	.	+	.	+	.	.	+	.	4	40
	Didymodon vinealis	E0	.	.	.	.	.	.	.	.	+	.	1	10
	Ctenidium molluscum	E0	.	.	.	.	.	.	.	.	.	1	1	10

Legend - Legenda

L Limestone - apnenec
Ch Chert - roženec
Cl Claystone - glinavec
M Marlstone - laporovec
Li Lithosol - kamnišče
Pr. Presence (number of relevés in which the species is presented) - število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % - frekvenca v %

Table 6 (Preglednica 6): ***Veronico urticifoliae-Saxifragetum cuneifolii***

Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11
Database number of relevé (Delovna številka popisa)		215109	261182	261797	261798	268260	269096	269098	279922	261006	261796	261227
Elevation in m (Nadmorska višina v m)		160	450	300	300	710	850	825	590	260	240	320
Aspect (Lega)		NW	NW	N	NE	E	W	W	W	NNE	N	NE
Slope in degrees (Nagib v stopinjah)		80	90	85	80	80	90	90	80	80	100	95
Parent material (Matična podlaga)		L	L	Br	L	Cl	Cl	LCh	L	L	L	L
Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li
Stoniness in % (Kamnitost v %)		100	100	100	100	100	100	100	100	100	100	100
Cover of herb layer in % (Zastiranje zeliščne plasti v %):		30	17	20	15	40	20	30	30	30	20	10
Cover of moss layer in % (Zastiranje mahovne plasti v %):		30	20	10	10	60	30	20	20	20	30	10
Number of species (Število vrst)		20	17	13	12	13	10	16	11	17	14	8
Relevé area (Velikost popisne ploskve)	m^2	10	10	10	10	5	5	10	20	10	10	10
Date of taking relevé (Datum popisa)		4/3/2007	4/29/2016	5/3/2016	5/3/2016	9/4/2017	5/17/2017	5/17/2017	4/11/2020	4/22/2016	5/3/2016	4/29/2016
Locality (Nahajališče)		Srnjak	Na Vrhu	Plave-Sopet	Plave-Sopet	Zaposka grapa	Kacenpoh-Kobla	Kacenpoh	Kacenpoh	Plave-Strmec	Plave-Sopet	Na Vrhu-Strmec
Quadrant (Kvadrant)		9947/4	9947/4	9947/3	9947/3	9849/2	9749/4	9749/4	9749/4	9947/3	9947/3	9947/3
Coordinate GK Y (D-48)	m	391458	390353	389892	389855	421265	420153	420133	420227	390327	389977	390229
Coordinate GK X (D-48)	m	5098742	5099660	5100082	5100088	5113488	5120934	5120991	5119983	5100055	5100234	5099855
Diagnostic species of the association (Diagnostične vrste asociacije)												
VP *Saxifraga cuneifolia*	E1	2	1	1	+	3	2	2	2	1	2	1
AT *Asplenium trichomanes*	E1	1	1	1	1	1	1	1	1	+	1	1
VP *Veronica urticifolia*	E1	1	.	+	1	1	+	+	+	2	+	+
ML *Exertotheca crispa (Neckera crispa)*	E0	+	2	2	1	3	2	2	2	.	.	.
AP *Valeriana tripteris*	E1	.	+	.	.	1	.	+	.	.	.	.
Differential species of lower units (Razlikovalnice nižjih enot)												
FS *Galeobdolon flavidum*	E1	.	.	+	.	.	.	.	.	+	+	.
PA *Fissidens dubius*	E0	.	+	.	.	1	.	.	.	.	.	+
TA *Phyllitis scolopendrium*	E1	.	.	.	.	.	.	.	+	.	.	.
AP ***Astrantio carniolicae-Paederotion luteae***												
Palustriella commutata	E0	.	.	+	.	.	.	.	.	+	1	.
Cystopteris fragilis	E1	.	.	.	.	+	+	.	.	.	.	.
Orthothecium rufescens	E0	+	.	.	.	.	.	.	.	.	.	.
Carex brachystachys	E1	.	.	.	.	.	.	+	.	.	.	.
Apopellia endiviifolia (Pellia endiviifolia)	E0	.	.	+	.	.	.	.	.	+	+	.
Hydrogonium croceum (Barbula crocea)	E0	.	.	.	.	.	.	.	.	.	.	.
Aster bellidiastrum	E1	r	.	.	.	.	.	.	.	.	.	.
Hymenostylium recurvirostrum	E0	.	.	.	.	.	2	.	.	.	.	.
Asplenium viride	E1	.	.	.	.	.	.	+	+	.	.	.
Eucladium verticillatum	E0	.	.	.	.	.	.	.	.	.	2	.
Paederota lutea	E1	.	.	.	.	.	.	+	.	.	.	.
Viola biflora	E1	.	.	.	.	.	.	+	.	.	.	.
Jungermannia atrovirens	E0	.	.	.	.	.	.	.	.	.	.	.
Astrantia carniolica	E1	.	.	.	.	.	.	.	.	.	.	.

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33								
262751	262752	269095	255904	260839	260843	273694	275263	261425	287178	287177	282696	282694	273694	278124	277694	273215	282697	282700	287139	271704	271709								
660	660	865	440	350	550	600	350	350	350	350	525	500	600	400	390	1060	515	530	800	340	360								
SWW	SEE	S	NW	NNE	N	NW	NE	SWW	NW	NW	NEE	E	NW	SE	SE	W	NE	N	W	NW	N								
90	90	75	85	85	80	80	85	100	85	90	85	95	80	80	80	80	80	80	90	80	90								
LMCh	LMCh	Cl	L	L	L	LCh	D	L	LCh	LCh	LCh	LCh	LCh	CMCh	LM	L	LCh	LCh	L	M	LM								
Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li								
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100								
20	20	30	20	20	30	30	30	60	20	10	20	20	30	30	40	30	30	30	30	40	40								
5	15	0	30	30	30	50	50	20	30	10	30	60	50	40	60	40	30	390	10	40	30								
9	9	12	11	18	29	18	19	12	18	24	25	23	18	16	22	19	20	25	28	14	19								
5	5	5	10	10	10	10	15	10	10	10	10	10	10	10	10	10	10	15	15	10	20								
9/10/2016	9/10/2016	5/17/2017	3/18/2015	4/4/2016	4/4/2016	9/5/2018	4/17/2019	4/11/2016	6/18/2021	6/18/2021	9/15/2020	9/15/2020	9/5/2018	6/26/2019	6/26/2019	9/18/2018	9/15/2020	9/15/2020	8/10/2021	7/12/2018	7/12/2018								
Driselpoh	Driselpoh	Kacenpoh-Kobla	Avščeк	Avščeк	Avščeк	Liščak-Drsela	Grudnica-Kline	Avščeк	Liščak	Liščak	Liščak-Zališčar jeva grapa	Liščak	Liščak-Drsela	Liščak-Drsela	Liščak-Drsela	Liščak-Mlečni rob	Liščak-Zališčar jeva grapa	Liščak	Liščak-Sopot	Rog-Idrija	Kosi-Idrija								
9749/4	9749/4	9749/4	9948/1	9948/1	9948/1	9849/1	9848/4	9948/1	9849/1	9849/1	9749/3	9849/1	9849/1	9849/1	9849/1	9849/1	9849/1	9749/3	9749/3	9847/4	9847/4								
418807	418822	420199	400978	400746	400722	411587	406337	400473	410911	410918	411364	411370	411587	411206	411077	412246	411383	411440	411728	395413	395192								
5119244	5119278	5120989	5103089	5103462	5103027	5117170	5109951	5103666	5117025	5117044	5117932	5117884	5117170	5117434	5117270	5117046	5117911	5117940	5118644	5111086	5110910								
																						Pr.	Fr.						
+	+	1	1	1	1	1	1	3	2	1	2	1	1	+	+	+	1	1	1	2	1	33	100						
1	2	1	1	.	1	2	1	1	+	+	2	+	2	2	+	1	1	1	+	1	2	32	97						
+	1	+	.	.	r	+	+	.	1	.	+	1	+	2	2	1	1	1	.	1	2	27	82						
.	.	.	.	+	+	+	2	+	1	1	+	.	+	2	+	3	1	.	+	1	.	23	70						
.	.	+	.	.	2	.	.	.	.	.	+	+	.	+	.	+	1	1	+	+	.	13	39						
.	.	.	+	+	+	+	+	+	1	.	2	1	+	.	+	+	2	1	.	1	+	19	58						
.	.	.	.	+	1	1	.	2	1	1	1	2	1	.	1	.	2	1	+	1	1	18	55						
.	.	.	+	+	.	+	+	.	1	1	+	.	+	1	+	.	.	.	.	.	.	11	33						
.	.	.	.	.	.	+	.	.	1	1	.	.	+	.	.	.	.	.	.	.	.	7	22						
.	.	.	.	.	.	1	.	.	.	.	.	.	1	.	.	.	.	.	.	.	r	5	15						
.	.	.	.	+	+	.	.	.	.	.	.	2	.	.	.	.	.	.	.	.	.	4	12						
.	.	.	.	.	.	.	.	.	.	+	.	+	.	.	.	.	.	+	.	.	.	4	12						
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	9						
.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	1	2	3	9						
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.	.	.	.	.	.	.	.	.	.	.	.	2	.	.	.	.	.	.	.	.	.	2	6						
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.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	2	6						
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	3						
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	3						
.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	1	3						
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	1	3						

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11
PsSp	***Physoplexido comosae-Saxifragion petraeae***												
	Phyteuma scheuchzeri subsp. *columnae*	E1	1	1	1	+	.	.	.	.	1	+	.
	Saxifraga petraea	E1	.	+	.	.	.	.	.	.	.	.	r
	Campanula carnica	E1	.	.	.	.	.	.	.	.	.	.	.
PC	***Potentilletalia caulescentis***												
	Saxifraga crustata	E1	.	.	.	.	.	.	+	.	.	.	.
AT	***Asplenietea trichomanis***												
	Moehringia muscosa	E1	+	+	.	+	.	+	.	.	.	.	.
	Asplenium ruta-muraria	E1	.	.	.	.	.	.	1	.	+	.	.
	Polypodium vulgare	E1	.	.	.	.	.	+	.	.	.	.	.
	Ceterach javorkeanum	E1	.	r	.	.	.	.	.	.	.	.	.
	Sedum album	E1	.	.	.	.	.	.	.	.	.	.	.
	Sedum hispanicum	E1	.	.	.	.	.	.	.	.	.	.	.
	Polypodium interjectum	E1	.	.	.	.	.	.	.	.	.	.	.
TR	***Thlaspietea rotundifolii***												
	Hieracium bifidum	E1	.	+	.	.	.	+	.	.	.	.	.
	Adenostyles glabra	E1	.	.	.	.	.	.	.	.	.	.	.
MC	***Montio-Cardaminetea***												
	Conocephalum conicum	E0	+	.	.	.	+	.	.	.	+	+	.
	Gymnostomum aeruginosum	E0	.	.	.	1	.	.	.	.	1	.	.
	Cratoneuron filicinum	E0	.	.	.	.	.	.	.	.	+	.	.
ES	***Elyno-Seslerietea***												
	Sesleria caerulea	E1	.	.	.	.	.	.	+	.	.	.	.
	Sesleria tenuifolia subsp. *kalnikensis*	E1	.	r	.	.	.	.	.	.	.	.	.
BA	***Betulo-Alnetea***												
	Salix appendiculata	E1	.	.	.	.	.	.	.	.	.	.	.
MuA	***Mulgedio-Aconitetea***												
	Senecio ovatus	E1	.	.	.	.	.	.	.	.	r	.	.
	Phyteuma ovatum	E1	.	.	.	.	.	.	.	+	.	.	.
	Saxifraga rotundifolia	E1	.	.	.	.	.	.	.	.	.	.	.
	Aconitum degenii subsp. *paniculatum*	E1	.	.	.	.	.	.	.	.	.	.	.
SSC	***Sambuco-Salicion capreae***												
	Salix caprea	E1	.	.	.	.	.	.	.	.	.	.	.
TG	***Trifolio-Geranietea***												
	Campanula rapunculoides	E1	.	.	.	.	.	.	.	.	.	.	.
	Hypericum perforatum	E1	.	.	.	.	.	.	.	.	.	.	.
	Digitalis grandiflora	E1	.	.	.	.	.	.	.	.	.	.	.
	Laserpitium siler	E1	.	.	.	.	.	.	.	.	.	.	.
EP	***Erico-Pinetea, Festuco-Brometea***												
	Calamagrostis varia	E1	.	.	.	.	.	.	.	.	.	.	.
	Carex ornithopoda	E1	.	.	.	.	.	.	.	.	.	.	.
	Cirsium erisithales	E1	.	.	.	.	.	.	.	.	.	.	.
VP	***Vaccinio-Piceetea***												
	Oxalis acetosella	E1	.	.	.	+	.	.	.	.	+	.	.
	Solidago virgaurea	E1	.	.	.	.	.	.	.	.	.	.	.
	Calamagrostis arundinacea	E1	.	.	.	.	+	.	.	.	.	.	.
	Hieracium murorum	E1	+	.	.	.	.	.	.	.	.	.	.
	Aposeris foetida	E1	.	.	.	.	.	.	.	.	.	.	.
	Homogyne sylvestris	E1	.	.	.	.	.	.	.	.	.	.	.
AF	***Aremonio-Fagion, Erythronio-Carpinion***												
	Cyclamen purpurascens	E1	+	r	.	+	.	+	.	.	.	.	.
	Cardamine trifolia	E1	1	.	.	.	.	.	.	.	.	.	.
	Lamium orvala	E1	.	.	.	.	.	.	.	.	.	r	.
	Cardamine enneaphyllos	E1	r	.	.	.	.	.	.	.	.	.	.
	Anemone trifolia	E1	.	.	.	.	.	.	.	.	+	.	.
	Scopolia carniolica	E1	.	.	.	.	.	.	.	.	.	.	.
	Primula vulgaris	E1	.	.	.	.	.	.	.	.	.	.	.
TA	***Tilio-Acerion, Alnion incanae***												
	Aruncus dioicus	E1	.	.	.	.	+	.	+	.	.	.	.
	Geranium robertianum	E1	.	.	.	.	.	.	.	.	.	.	.
	Tephroseris pseudocrispa	E1	.	.	r	.	+	.	.	.	r	.	.
	Ulmus glabra	E1	.	r	.	.	.	.	.	.	.	.	.
	Acer pseudoplatanus	E1	.	.	.	.	.	.	.	.	+	.	.

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	Pr.	Fr.
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	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11
	Polystichum setiferum	E1	.	.	.	.	.	.	.	.	.	.	.
	Polystichum aculeatum	E1	.	.	.	.	.	.	.	.	.	.	.
	Chrysosplenium alternifolium	E1	.	.	.	.	.	.	.	.	.	.	.
FS	***Fagetalia sylvaticae***												
	Mycelis muralis	E1	.	.	+	+	.	.	.	.	.	.	.
	Galium laevigatum	E1	.	.	.	.	.	.	.	.	.	.	.
	Salvia glutinosa	E1	+	.	.	.	.	.	.	.	.	.	.
	Prenanthes purpurea	E1	.	r	.	.	.	.	.	.	.	.	.
	Asarum europaeum subsp. *caucasicum*	E1	.	.	.	.	.	.	.	+	.	.	.
	Cardamine pentaphyllos	E1	.	.	.	.	.	.	.	.	.	.	.
	Mercurialis perennis	E1	.	.	.	.	.	.	.	.	.	.	.
	Allium ursinum	E1	.	.	.	.	.	.	.	.	.	+	.
	Euphorbia dulcis	E1	.	.	.	.	.	.	.	.	.	.	.
	Sambucus nigra	E1	.	.	.	.	.	.	.	.	.	.	.
	Poa nemoralis	E1	.	.	.	.	.	.	.	.	.	.	.
	Festuca altissima	E1	.	.	.	.	.	.	.	.	.	.	.
	Actaea spicata	E1	.	.	.	.	.	.	.	.	.	.	.
QP	***Quercetalia pubescenti-petraeae***												
	Arabis turrita	E1	.	.	.	.	.	.	.	.	.	.	.
	Sesleria autumnalis	E1	.	.	.	.	.	.	.	.	.	.	.
	Ostrya carpinifolia	E1	.	.	.	.	.	.	.	.	.	.	.
	Fraxinus ornus	E1	.	.	.	.	.	.	.	.	.	.	.
QP	***Querco-Fagetea***												
	Hedera helix	E1	.	+	1	.	.	.	.	.	.	1	+
	Carex digitata	E1	1	+	.	.	.	.	.	+	+	.	.
	Veratrum nigrum	E1	+	.	r	r	.	.	.	.	.	.	.
	Hepatica nobilis	E1	+	r	.	.	.	.	.	.	.	.	.
	Clematis vitalba	E1	r	.	.	.	.	.	.	.	.	.	.
	Festuca heterophylla	E1	.	.	.	.	.	.	.	.	.	.	.
ML	**Mosses (Mahovi)**												
	Ctenidium molluscum	E0	.	.	.	.	1	.	.	+	.	.	1
	Isothecium alopecuroides	E0	.	.	1	1	.	.	.	.	.	+	.
	Oxyrrhynchium hians	E0	.	.	.	.	.	.	.	.	1	r	.
	Mnium marginatum	E0	+	1	.	.	.	.	.	.	.	.	1
	Tortella tortuosa	E0	.	.	.	.	+	.	.	.	.	.	.
	Thamnobryum alopecurum	E0	.	.	.	.	.	.	.	.	.	.	.
	Mnium thomsonii	E0	.	.	.	.	.	.	.	.	.	.	.
	Anomodon viticulosus	E0	.	.	.	.	.	.	.	.	.	.	.
	Plagiomnium undulatum	E0	.	.	.	.	.	.	.	.	.	.	.
	Pseudanomodon attenuatus (Anomodon attenuatus)	E0	.	.	.	.	.	.	.	2	.	.	.
	Chionoloma tenuirostre (Oxystegus tenuirostre)	E0		+	.	.	.	.	+	.	.	.	.
	Encalypta streptocarpa	E0	+	.	.	.	.	.	.	.	.	.	.
	Brachythecium rutabulum	E0	.	.	.	.	.	.	.	.	.	.	.
	Plagiomnium rostratum	E0	.	.	.	.	.	.	.	.	.	.	.
	Pedinophyllum interruptum	E0	.	.	.	.	.	.	.	.	.	.	.
	Bryum sp.	E0	.	.	.	.	.	.	1	.	.	.	.
	Homalothecium philippeanum	E0	.	.	.	.	.	.	.	.	.	.	.
	Alleniella complanata (Neckera complanata)	E0	.	.	.	.	.	.	.	.	.	.	.
	Mnium spinulosum	E0	.	.	.	.	.	.	.	.	.	.	.
	Weisia sp.	E0	.	.	.	.	.	.	.	.	.	.	.
	Brachythecium salebrosum	E0	.	.	.	.	.	.	.	.	.	.	.
	Amblystegium serpens	E0	.	.	.	.	.	.	.	.	.	.	.

Legend - Legenda

L Limestone - apnenec
Br Breccia - breča
Ch Chert - roženec
D Dolomite - dolomit
Cl Claystone - glinavec
M Marlstone - laporovec
Li Lithosol - kamnišče
Pr. Presence (number of relevés in which the species is presented) - število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % - frekvenca v %

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	Pr.	Fr.
.	.	.	.	.	.	.	.	.	+	+	.	.	.	+	.	.	.	.	.	.	.	3	9
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.	.	.	.	.	+	.	+	.	.	+	+	+	.	.	.	.	+	+	.	+	+	9	27
.	.	.	.	.	.	.	.	.	.	.	+	.	.	r	.	.	+	1	.	.	.	5	15
.	+	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	.	.	+	.	.	5	15
.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	.	+	.	+	.	.	.	5	15
.	.	.	.	.	r	+	+	.	.	.	.	.	+	.	.	.	.	.	.	.	.	4	12
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+	+	.	.	.	.	.	.	.	+	.	+	+	.	+	+	.	+	+	+	.	+	15	45
.	.	.	.	.	r	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	6	18
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.	.	.	+	+	.	.	+	1	1	1	.	.	.	.	.	.	.	.	.	.	.	6	18
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Table 7 (Preglednica 7): ***Calamagrostio variae-Asteretum bellidiastri***

Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9
Database number of relevé (Delovna številka popisa)		268041	272225	272226	272223	272230	274991	282732	274989	275510
Elevation in m (Nadmorska višina v m)		260	235	235	240	320	270	560	275	275
Aspect (Lega)		NE	NE	NE	NE	NNW	N	NW	NE	W
Slope in degrees (Nagib v stopinjah)		80	80	80	90	70	35	15	20	80
Parent material (Matična podlaga)		Co	L	LCh	LCh	LCh	L	D	L	Br
Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li
Stoniness in % (Kamnitost v %)		100	100	100	100	100	100	100	100	100
Cover of shrub layer in % (Zastiranje grmovne plasti v %):		.	5	2	.	.	.	.	5	.
Cover of herb layer in % (Zastiranje zeliščne plasti v %):		35	40	50	30	40	30	40	30	30
Cover of moss layer in % (Zastiranje mahovne plasti v %):		70	60	50	30	50	40	30	40	70
Number of species (Število vrst)		15	16	29	17	24	7	22	18	11
Relevé area (Velikost popisne ploskve)	m^2	5	10	10	20	10	15	10	15	15
Date of taking relevé (Datum popisa)		8/6/2017	8/24/2018	8/24/2018	8/24/2018	8/23/2018	6/29/2018	6/22/2020	6/29/2018	5/14/2019
Locality (Nahajališče)		Slatne-Bača	Slatne-Bača	Slatne-Bača	Slatne-Bača	Klonte-Bača	Kostanjevica-Idrija	Vintgar	Kostanjevica-Idrija	Magozd-Soča
Quadrant (Kvadrant)		9849/1	9849/1	9849/1	9849/1	9849/1	9847/4	9650/2	9847/4	9747/1
Coordinate GK Y (D-48)	m	410681	410599	410575	410663	414786	392932	430204	392748	389940
Coordinate GK X (D-48)	m	5113046	5113100	5113111	5113044	5113826	5108908	5139501	5108957	5127013
Diagnostic species of association (Diagnostične vrste asociacije)										
AP *Aster bellidiastrum*	E1	3	3	2	2	2	2	3	2	3
EP *Calamagrostis varia*	E1	+	+	+	+	1	1	1	2	+
Differential species of lower units (Razlikovalnice nižjih enot)										
ML *Brachythecium rivulare*	E0	2	2	2	2	.	2	.	2	.
ML *Hygrohypnum luridum*	E0	+	+	+	+	.	.	.	1	1
ML *Didymodon spadiceus*	E0	1	1	1	1	.	.	.	.	1
ML *Pedinophyllum interruptum*	E0	+	+	+	.	.	+	+	.	.
ML *Plagiomnium rostratum*	E0	.	.	+	.	+	.	+	.	.
ML *Brachythecium rutabulum*	E0	.	.	.	.	2	.	2	.	3
ML *Tortella tortuosa*	E0	.	.	.	.	1	.	.	.	.
TR *Hieracium bifidum*	E1	.	.	.	.	+	.	.	.	.
AP ***Astrantio carniolicae-Paederotion luteae***										
Apopellia endiviifolia (Pellia endiviifolia)	E0	.	.	+	.	.	+	.	.	1
Hydrogonium croceum (Barbula crocea)	E0	.	.	1	.	2	.	.	.	.
Valeriana tripteris	E1	.	.	.	+	.	.	+	.	.
Selaginella helvetica	E1	+	.	1	r	.	.	.	.	.
Paederota lutea	E1	.	.	.	.	.	.	.	.	+
Carex brachystachys	E1	.	.	.	.	.	.	.	.	.
Cystopteris fragilis	E1	+	+	+	.	.	.	.	.	.
Tofieldia calyculata	E1	.	.	.	.	.	.	.	.	.
Jungermannia atrovirens	E0	.	.	.	+	+	+	.	.	.
Hymenostylium recurvirostrum	E0	.	.	.	+	.	+	.	.	.

	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
	287214	273967	288697	271060	288869	288874	288931	288932	285280	285357	277643	278224	285357	286024	277783	285362	281773	275017	287214		
	295	780	370	270	350	350	355	350	330	300	354	530	300	315	580	295	785	350	295		
	SE	NW	NNE	N	S	NE	N	N	SW	0	S	W	0	NE	E	SSW	SW	N	SE		
	90	15	70	20	90	90	80	75	90	70	80	90	95	80	30	80	95	80	90		
	LClCh	D	L	D	L	LCl	L	L	DCh	DCh	L	DA	DCh	L	D	DCh	CMCh	CMCh	LClCh		
	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li		
	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	5	5	5	5	.	5	.	.	5	2	.	.	2	.	.	5	.	5	5		
	30	30	40	40	20	10	20	30	30	25	30	20	25	40	40	20	40	30	30		
	5	30	30	10	5	5	20	20	10	30	10	30	30	50	20	30	30	30	5		
	13	26	28	27	21	16	12	17	16	14	9	18	14	11	9	7	9	15	13		
	10	15	20	50	20	10	10	10	10	10	10	10	10	10	5	10	6	10	10		
	6/18/2021	7/2/2018	8/25/2021	4/29/2018	8/26/2021	8/26/2021	9/2/2021	9/2/2021	4/9/2021	4/14/2021	6/9/2019	9/20/2019	4/14/2021	5/20/2021	6/24/2019	4/14/2021	6/24/2020	7/1/2018	6/18/2021		
	Knežica-Mlinar	Gačnik	Nadiža-Jamnikova voda	Gorenja Trebuša-Trebušica	Nadiža-Logje	Nadiža-Gradec	Nadiža-Legrada	Nadiža-Legrada	Velike Luti	Velike Luti	Tolminka-Srednji-ca	Trenta	Velike Luti	Srpenica-Soča	Voje-Mostnica	Loje-Knežica	Liščak-Sopot	Liščak	Knežica-Mlinar		
	9849/1	9949/1	9746/4	9948/4	9746/4	9746/4	9746/4	9746/4	9849/1	9849/1	9748/3	9648/1	9849/1	9747/1	9649/3	9849/1	9749/3	9849/1	9849/1		
	411053	412178	378366	409681	378835	378817	378715	378722	410993	411032	401996	400714	411032	386345	414558	411047	411736	410831	411053		
	5116380	5101829	5122586	5100935	5122256	5122242	5122322	5122297	5116606	5116480	5122073	5135770	5116480	5128001	5129152	5116366	5118632	5116972	5116380		
																				Pr.	Fr.
	2	1	1	2	2	+	1	1	1	3	2	1	3	3	2	1	2	2	2	28	100
	1	+	+	1	1	.	+	+	.	r	r	+	r	.	+	1	+	.	1	24	86
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	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9
	Palustriella commutata	E0	.	.	.	.	.	.	.	.	.
	Eucladium verticillatum	E0	.	.	+	.	.	.	.	.	.
	Viola biflora	E1	.	.	.	.	.	.	+	.	.
	Astrantia carniolica	E1	.	.	.	.	.	.	.	.	.
	Fissidens dubius	E0	.	.	.	.	.	.	.	.	.
	Valeriana saxatilis	E1	.	.	.	.	.	.	.	.	.
	Pinguicula alpina	E1	.	.	.	.	.	.	.	.	.
	Marchantia quadrata (Preissia quadrata)	E0	.	.	.	.	.	.	.	.	.
PcSp	***Physoplexido comosae-Saxifragion petraeae***										
	Hieracium pospichalii	E1	+	.	.	.	.	.	.	.	.
	Campanula cespitosa	E1	.	.	.	.	.	.	.	.	.
	Campanula carnica	E1	.	.	.	.	.	.	.	.	.
	Hieracium porrifolium	E1	.	.	.	.	.	.	.	.	.
	Athamanta turbith	E1	.	.	.	.	.	.	.	.	.
	Micromeria thymifolia	E1	.	.	.	.	.	.	.	.	.
	Phyteuma scheuchzeri subsp. *columnae*	E1	.	.	.	.	.	.	.	.	.
	Campanula zoysii	E1	.	.	.	.	.	.	.	.	.
PC	***Potentilletalia caulescentis***										
	Saxifraga hostii	E1	.	.	.	.	.	.	.	.	.
	Festuca stenantha	E1	.	.	.	.	.	.	.	.	.
	Potentilla caulescens	E1	.	.	.	.	.	.	.	.	.
AT	***Asplenietea trichomanis***										
	Asplenium ruta-muraria	E1	.	.	.	.	.	.	.	.	+
	Asplenium trichomanes	E1	.	.	.	.	.	.	.	.	.
MC	***Montio-Cardaminetea***										
	Conocephalum conicum	E0	3	1	2	+	+	.	.	.	.
	Cratoneuron filicinum	E0	.	.	1	.	.	.	.	.	.
	Oxyrrhynchium hians	E0	.	+	.	.	.	.	.	.	.
	Calliergonella cuspidata	E0	.	.	+	.	.	.	.	.	.
	Cololejeunea calcarea	E0	.	.	.	+	.	.	.	.	.
	Fontinalis antipyretica var. *antipyretica*	E0	.	.	.	.	.	.	.	1	.
	Palustriella decipiens	E0	.	.	.	.	.	.	.	.	.
CD	***Caricetalia davallianae***										
	Carex flava agg.	E1	.	.	.	.	.	.	.	.	.
	Carex lepidocarpa	E1	.	.	.	.	.	.	.	.	.
	Campylium stellatum	E1	.	.	.	.	.	.	.	.	.
TR	***Thlaspietea rotundifolii***										
	Trisetum argenteum	E1	.	.	.	.	.	.	.	.	1
	Petasites paradoxus	E1	.	.	.	.	.	.	.	.	.
	Achnatherum calamagrostis	E1	.	.	.	.	.	.	.	+	.
	Adenostyles glabra	E1	.	.	.	.	.	.	+	.	.
	Hieracium glaucum	E1	.	.	.	.	.	.	.	.	+
	Poa compressa	E1	.	.	.	.	.	.	.	.	.
	Gymnocarpium robertianum	E1	.	.	.	.	.	.	.	.	.
	Peucedanum verticillare	E1	.	.	.	.	.	.	.	.	.
	Hieracium piloselloides	E1	.	.	.	.	.	.	.	.	.
	Soldanella minima	E1	.	.	.	.	.	.	.	.	.
ES	***Elyno-Seslerietea***										
	Sesleria caerulea	E1	.	.	.	.	.	.	.	.	.
	Carex ornithopodoides	E1	.	.	.	.	.	.	.	.	.
	Carex ferruginea	E1	.	.	.	.	.	.	.	.	.
	Carex mucronata	E1	.	.	.	.	.	.	.	.	.
	Erigeron glabratus	E1	.	.	.	.	.	.	.	.	.
BA	***Betulo-Alnetea***										
	Salix appendiculata	E2a	.	+	.	.	.	.	.	.	.
MuA	***Mulgedio-Aconitetea***										
	Chaerophyllum hirsutum	E1	.	.	.	.	r	.	+	.	.
	Petasites hybridus	E1	.	.	.	.	.	.	.	+	.
EA	***Epilobietea angustifolii***										
	Eupatorium cannabinum	E1	.	r	+	.	.	.	.	+	.
	Tussilago farfara	E1	.	.	.	.	+	.	.	1	.
	Cardamine hirsuta	E1	.	.	.	.	r	.	.	.	.
	Carex oederi	E1	.	.	.	.	.	.	.	.	.

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	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9
	Fragaria vesca	E1	.	.	.	.	.	.	.	.	.
TG	***Trifolio-Geranietea***										
	Campanula rapunculoides	E1	.	.	.	.	.	.	+	.	.
	Hypericum perforatum	E1	.	.	.	.	.	.	.	.	.
PaT	***Poo alpinae-Trisetetalia***										
	Poa alpina	E1	.	.	.	.	.	.	.	.	.
Mo	***Molinion***										
	Taraxacum sect. *Palustria*	E1	.	.	.	.	.	.	.	.	.
	Filipendula ulmaria	E1	.	.	.	.	.	.	+	.	.
	Crepis paludosa	E1	.	.	.	.	.	.	.	.	.
MA	***Molinio-Arrhenatheretea***										
	Deschampsia cespitosa	E1	+	.	.	.	r	.	r	.	.
	Prunella vulgaris	E1	.	.	.	.	.	+	.	1	.
	Leontodon hispidus	E1	+	.	r	.	.	.	.	.	.
	Agrostis stolonifera	E1	.	+	.	.	.	.	.	.	.
	Angelica sylvestris	E1	.	.	r	.	.	.	.	.	.
	Galium mollugo	E1	.	.	.	.	.	.	+	.	.
	Taraxacum sect. *Ruderalia*	E1	.	.	.	.	.	.	.	+	.
	Dactylis glomerata	E1	.	.	.	.	.	.	.	.	.
FB	***Festuco-Brometea***										
	Buphthalmum salicifolium	E1	.	.	.	.	.	.	.	.	.
	Thymus praecox	E1	.	.	.	.	.	.	.	.	.
	Plantago media	E1	.	.	.	.	.	.	.	.	.
	Brachypodium rupestre	E1	.	.	.	.	.	.	.	.	.
	Koeleria pyramidata	E1	.	.	.	.	.	.	.	.	.
	Linum catharticum	E1	.	.	.	.	.	.	.	.	.
	Euphorbia cyparissias	E1	.	.	.	.	.	.	.	.	.
	Taraxacum sect. *Erythrosperma*	E1	.	.	.	.	.	.	.	.	.
	Centaurea dichroantha	E1	.	.	.	.	.	.	.	.	.
SM	***Stellarietea mediae***										
	Galinsoga ciliata	E1	.	.	.	.	r	.	.	.	.
EP	***Erico-Pinetea***										
	Carex ornithopoda	E1	.	1	+	.	.	.	.	.	.
	Erica carnea	E1	.	.	.	.	.	.	.	.	.
	Leontodon incanus	E1	.	.	.	.	.	.	.	.	.
	Rubus saxatilis	E1	.	.	.	.	.	.	+	.	.
	Euphrasia cuspidata	E1	.	.	.	.	.	.	.	.	.
	Molinia arundinacea	E1	.	.	.	.	.	.	.	.	.
VP	***Vaccinio-Piceetea***										
	Veronica urticifolia	E1	1	1	1	1	+	1	1	.	.
	Oxalis acetosella	E1	.	.	r	.	+	.	.	.	.
	Clematis alpina	E1	.	.	.	.	.	.	.	.	.
	Calamagrostis arundinacea	E1	.	.	.	.	.	.	.	.	.
TA	***Tilio-Acerion***										
	Phyllitis scolopendrium	E1	.	.	+	.	.	.	+	.	.
	Aruncus dioicus	E1	.	.	.	.	.	1	.	.	.
	Geranium robertianum	E1	.	+	.	+	+	.	.	.	.
	Polystichum x wirtgenii	E1	.	.	.	.	.	.	.	.	.
AI	***Alnion incanae***										
	Rubus caesius	E1	.	+	.	.	.	.	.	r	.
	Alnus glutinosa	E2a	.	.	r	.	.	.	.	+	.
	Salix eleagnos	E2a	.	.	r	.	.	.	.	.	.
	Knautia drymeia subsp. *intermedia*	E1	.	.	.	.	+	.	.	.	.
	Frangula alnus	E2a	.	.	.	.	.	.	.	.	.
	Viburnum opulus	E2a	.	.	.	.	.	.	.	.	.
FS	***Fagetalia sylvaticae***										
	Galeobdolon flavidum	E1	+	.	.	+	r	.	.	.	.
	Galium laevigatum	E1	.	.	.	.	+	.	.	.	.
	Mycelis muralis	E1	.	.	r	.	.	.	+	.	.
	Salvia glutinosa	E1	.	.	+	.	.	.	.	.	.
	Brachypodium sylvaticum	E1	.	.	+	.	r	.	.	.	.
	Tilia cordata	E2a	.	+	.	.	.	.	.	.	.
	Viola reichenbachiana	E1	.	r	.	.	.	.	.	.	.

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Pr.	Fr.
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	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9
	Epilobium montanum	E1	.	.	.	.	r	.	.	.	.
	Ranunculus lanuginosus	E1	.	.	.	.	.	.	+	.	.
	Fagus sylvatica	E2a	.	.	.	.	.	.	.	.	.
	Campanula trachelium	E1	.	.	.	.	.	.	.	.	.
QP	***Quercetalia pubescenti-petraeae***										
	Ostrya carpinifolia	E2a	.	.	.	.	.	.	.	.	.
	Fraxinus ornus	E1	.	.	.	.	.	.	.	.	.
	Clematis vitalba	E1	.	.	.	.	.	.	.	r	.
	Carex flacca	E1	.	.	.	.	.	.	.	.	.
QF	***Querco-Fagetea***										
	Hedera helix	E1	.	.	.	+	.	.	.	r	.
	Hieracium racemosum	E1	.	.	r	.	.	.	.	.	.
	Hieracium umbellatum	E1	.	.	r	.	.	.	.	.	.
	Viola riviniana	E1	.	.	.	.	.	.	.	+	.
	Carex digitata	E1	.	.	.	.	.	.	.	.	.
ML	**Mosses (Mahovi)**										
	Ctenidium molluscum	E0	1	.	1	.	1	.	1	1	.
	Schistidium apocarpum	E0	.		.	.	.	1	1	.	.
	Cirriphyllum crassinervium	E0	.	.	.	1	.	.	1	.	.
	Encalypta streptocarpa	E0	.	.	.	.	.	.	.	.	.
	Dichodontium pellucidum	E0	.	.	+	.	.	.	.	1	.
	Sciuro-hypnum starkei (Brachythecium starkei)	E0	.	1	.	.	.	.	.	.	.
	Trichostomum crispulum	E0	.	+	.	.	.	.	.	.	.
	Amblystegium serpens	E0	.	.	+	.	.	.	.	.	.
	Jungermannia sp.	E0	.	.	.	+	.	.	.	.	.
	Mesoptychia collaris (Leiocolea collaris)	E0	.	.	.	.	+	.	.	.	.
	Thamnobryum alopecurum	E0	.	.	.	.	.	.	+	.	.
	Campylopus sp.	E0	.	.	.	.	.	.	.	.	.
	Hypnum cupressiforme	E0	.	.	.	.	.	.	.	.	.
	Didymodon insulanus	E0	.	.	.	.	.	.	.	.	.
	Dichodontium flavescens	E0	.	.	.	.	.	.	.	.	.
	Lophozia sp.	E0	.	.	.	.	.	.	.	.	.
	Exertotheca crispa (Neckera crispa)	E0	.	.	.	.	.	.	.	.	.
	Plagiumnium elatum	E0	.	.	.	.	.	.	.	.	.
	Hylocomium splendens	E0	.	.	.	.	.	.	.	.	.

Legend - Legenda

L Limestone - apnenec
Br Brecia - breča
Ch Chert - roženec
Co Conglomerate - konglomerat
D Dolomite - dolomit
Cl Claystone - glinavec
M Marlstone - laporovec
Li Lithosol - kamnišče
Pr. Presence (number of relevés in which the species is presented) - število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % - frekvenca v %

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Pr.	Fr.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
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.	.	+	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	3	11
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Table 8 (Preglednica 8): ***Veronico urticifoliae-Violetum biflorae***

Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9
Database number of relevé (Delovna številka popisa)		214787	261649	258818	227007	261072	280906	254912	260939	258819
Elevation in m (Nadmorska višina v m)		450	550	665	210	590	465	780	550	665
Aspect (Lega)		W	NW	W	NE	N	NW	NW	NW	NW
Slope in degrees (Nagib v stopinjah)		90	10	80	80	80	70	95	95	95
Parent material (Matična podlaga)		LM	Deb	DCh	D	D	D	DL	D	DCh
Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li
Stoniness in % (Kamnitost v %)		100	20	100	100	100	10	100	100	100
Cover of shrub layer in % (Zastiranje grmovne plasti v %):		.	.	.	.	.	.	.	.	.
Cover of herb layer in % (Zastiranje zeliščne plasti v %):		30	80	60	30	50	60	30	30	30
Cover of moss layer in % (Zastiranje mahovne plasti v %):		40	50	60	50	80	80	10	10	40
Number of species (Število vrst)		9	17	15	13	14	9	16	14	12
Relevé area (Velikost popisne ploskve)	m^2	10	10	5	5	10	2	10	10	5
Date of taking relevé (Datum popisa)		5/9/2001	5/28/2016	10/12/2015	5/14/2009	4/20/2016	5/4/2020	5/5/2014	4/15/2016	10/12/2015
Locality (Nahajališče)		Matevž-Idrija	Zakojška grapa	Zakojška grapa	Stopnik-Gašper	Idršek	Kozjek-Vrše	Možnica	Žirovnica-Raskovec	Zakojška grapa
Quadrant (Kvadrant)		9847/2	9849/2	9849/2	9949/1	9950/4	9948/2	9647/1	9950/4	9849/2
Coordinate GK Y (D-48)	m	396518	418209	418979	414534	429293	408556	389796	430428	418882
Coordinate GK X (D-48)	m	5114008	5114294	5114424	5105561	5096506	5105335	5138674	5096264	5114407
Diagnostic species of the association (Diagnostične vrste asociacije)										
AP *Viola biflora*	E1	1	3	2	3	3	4	3	2	2
MC *Conocephalum conicum*	E0	3	3	4	1	2	4	+	1	2
VP *Veronica urticifolia*	E1	1	+	+	.	1	.	r	+	.
AP ***Astrantio carniolicae-Paederotion luteae***										
Orthothecium rufescens	E0	.	.	.	2	1	+	1	1	2
Asplenium viride	E1	.	.	.	.	+	+	1	+	+
Hymenostylium recurvirostrum	E0	.	.	1	.	.	.	.	.	1
Palustriella commutata	E0	.	1	.	.	.	.	.	.	.
Cystopteris fragilis	E1	.	.	.	.	.	.	+	+	.
Carex brachystachys	E1	.	.	.	.	.	.	+	+	+
Apopellia endiviifolia (Pellia endiviifolia)	E0	.	.	.	.	.	.	.	.	.
Aster bellidiastrum	E1	.	.	.	1	+	1	.	.	.
Astrantia carniolica	E1	.	.	.	.	.	.	+	.	.
Valeriana tripteris	E1	.	.	+	.	.	.	.	.	.
Paederota lutea	E1	.	.	.	1	.	+	+	.	.
Fissidens dubius	E0	.	.	.	.	.	.	.	.	.
Jungermannia atrovirens	E0	.	.	.	.	.	.	.	.	.
Hydrogonium croceum (Barbula crocea)	E0	.	.	.	.	.	.	.	.	.
Pinguicula alpina	E1	.	.	.	.	.	.	.	1	.
Valeriana saxatilis	E1	.	.	.	.	.	.	.	.	.
Eucladium verticillatum	E0	.	.	.	.	.	.	.	.	.
Primula carniolica	E1	.	.	.	.	.	.	.	.	.
PcSp ***Physoplexido comosae-Saxifragion petraeae***										
Campanula carnica	E1	r	.	.	.	.	.	r	.	.
Phyteuma scheuchzeri subsp. *columnae*	E1	.	.	.	+	+	.	.	.	.

	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
	281603	282729	281607	281608	281609	281613	246074	262134	273332	281116	280807	281822	287430	247206	258814	281820		
	560	575	588	545	540	580	492	776	460	450	650	1000	840	620	625	1000		
	N	NW	NW	NW	NNW	NW	NW	W	E	NNE	NNE	SW	W	N	N	SW		
	70	90	95	90	90	95	90	10	100	95	80	90	85	80	85	60		
	D	D	D	D	D	D	LCh	Deb	LMCh	L	Deb	LM	LM	DCh	DCh	Deb		
	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li		
	100	100	100	100	100	100	90	30	100	100	100	100	100	100	100	70		
	.	.	.	.	.	.	.	.	.	.	.	.	.	20	.	.		
	40	30	30	30	50	30	40	60	30	60	30	30	30	40	40	50		
	30	20	30	20	20	20	30	60	40	30	50	20	20	20	50	30		
	20	20	14	24	25	23	24	13	17	18	19	9	13	35	17	20		
	20	5	10	10	10	10	5	2	10	10	10	10	10	50	5	10		
	5/21/2020	6/22/2020	5/21/2020	5/21/2020	5/21/2020	5/21/2020	4/28/2012	7/9/2016	8/8/2018	5/23/2020	5/7/2020	6/29/2020	8/15/2021	4/28/2000	10/12/2015	6/29/2020		
	Vintgar	Vintgar	Vintgar	Vintgar	Vintgar	Vintgar	Driselpoh	Hoba-Bača	Prodarjeva grapa	Prodarjeva grapa	Kozjek	Drežniške Ravne-Curk	Špičnokova grapa slap	Zakojška grapa	Zakojška grapa	Drežniške Ravne-Curk		
	9550/4	9650/2	9650/2	9650/2	9650/2	9650/2	9749/4	9749/4	9849/2	9849/2	9948/2	9747/2	9849/2	9849/2	9849/2	9747/2		
	430944	430151	430840	430775	430637	430276	418723	422478	418785	418705	408513	395209	420937	418775	418775	395217		
	5139951	5139398	5139897	5139820	5139773	5139601	5118202	5120506	5117442	5117599	5104981	5126200	5117118	5114400	5114412	5126193		
																	Pr.	Fr.
	3	2	2	2	3	3	2	3	3	3	3	2	2	2	2	2	25	100
	2	2	1	1	1	+	+	3	1	1	1	+	1	1	2	1	25	100
	+	1	1	1	1	1	+	+	1	+	.	+	1	1	+	.	20	80
	1	1	2	1	2	1	2	.	1	2	1	.	.	1	1	+	19	76
	+	1	+	+	1	+	.	.	r	+	r	.	+	+	.	.	16	64
	+	1	.	1	1	+	1	.	.	1	.	2	+	.	.	+	12	48
	.	.	.	.	1	.	1	2	3	3	3	1	1	1	1	1	12	48
	.	+	1	1	1	1	.	+	.	.	+	+	+	.	.	.	11	44
	.	.	.	+	1	.	1	.	+	+	.	.	.	+	+	.	10	40
	.	.	.	.	+	.	2	1	.	+	.	+	+	.	+	1	8	32
	.	.	2	2	1	+	.	.	.	.	+	.	.	.	.	.	8	32
	.	.	1	2	1	+	.	.	.	.	r	.	.	.	.	.	6	24
	.	+	.	.	.	+	.	.	.	.	r	.	.	1	2	.	6	24
	.	.	.	.	.	.	+	.	.	r	+	.	.	.	.	.	6	24
	.	+	.	.	.	1	.	.	+	.	.	.	.	+	+	.	5	20
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	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9
PC	***Potentilletalia caulescentis***										
	Primula auricula	E1	.	.	.	.	.	.	.	.	.
	Potentilla caulescens	E1	.	.	.	.	.	.	.	.	.
AT	***Asplenietea trichomanis***										
	Asplenium trichomanes	E1	+	+	.	.	.	.	1	+	.
	Asplenium ruta-muraria	E1	.	.	.	.	.	.	.	.	.
	Kernera saxatilis	E1	.	.	.	.	.	.	.	.	.
	Moehringia muscosa	E1	.	.	.	.	.	.	.	.	.
TR	***Thlaspietea trotundifolii***										
	Adenostyles glabra	E1	.	+	2	.	.	.	.	.	1
	Gymnocarpium robertianum	E1	.	1	.	.	.	.	.	.	1
	Hieracium bifidum	E1	.	.	.	.	.	.	r	.	.
	Trisetum argenteum	E1	.	.	.	.	.	.	.	.	.
MC	***Montio-Cardaminetea***										
	Oxyrrhynchium hians	E0	.	.	.	.	.	.	.	.	.
	Oxyrrhynchium schleicheri	E0	.	.	.	.	.	.	.	.	.
	Flexitrichum flexicaule (Ditrichum flexicaule)	E0	.	.	.	.	.	.	.	.	.
	Rhynchostegium riparioides (Platyhypnidium riparioides)	E0	.	.	.	1	.	.	.	.	.
	Fontinalis antipyretica subsp. *antipyretica*	E0	.	.	.	+	.	.	.	.	.
	Cololejeunea calcarea	E0	.	.	.	.	.	.	.	.	.
CD	***Caricetalia davallianae***										
	Campylium stellatum	E0	.	.	.	.	1	.	.	.	.
ES	***Elyno-Seslerietea***										
	Sesleria caerulea	E1	.	.	.	.	.	.	.	.	+
	Carex ferruginea	E1	.	.	.	.	.	.	.	.	.
Mo	***Molinion, Molino-Arrhenatheretea***										
	Angelica sylvestris	E1	.	.	.	.	.	.	.	.	.
	Caltha palustris	E1	.	.	+	r	.	.	.	.	.
	Crepis paludosa	E1	.	.	1	.	.	.	.	.	.
TG	***Trifolio-Geranietea***										
	Campanula rapunculoides	E1	.	.	.	.	.	.	.	.	.
EA	***Epilobietea angustifolii***										
	Rubus idaeus	E1	.	+	.	.	.	.	.	.	.
	Solanum dulcamara	E1	.	.	.	.	.	.	.	.	.
MuA	***Mulgedio-Aconitetea***										
	Chaerophyllum hirsutum	E1	.	.	2	+	.	.	.	.	.
	Saxifraga rotundifolia	E1	.	.	+	.	r	.	.	.	.
	Senecio ovatus	E1	.	.	.	.	.	.	.	.	.
	Thalictrum aquilegiifolium	E1	.	1	.	.	.	.	.	.	.
	Phyteuma ovatum	E1	.	.	.	.	.	.	.	.	.
EP	***Erico-Pinetea***										
	Calamagrostis varia	E1	.	.	+	.	.	.	.	+	+
	Aquilegia nigricans	E1	.	.	.	.	.	.	.	.	.
	Carex ornithopoda	E1	r	.	.	.	.	.	.	.	.
	Rhodothamnus chamaecistus	E1	.	.	.	.	.	.	+	.	.
	Carex alba	E1	.	.	.	.	.	.	.	.	.
VP	***Vaccinio-Piceetea***										
	Oxalis acetosella	E1	1	2	.	.	+	.	.	.	.
	Saxifraga cuneifolia	E1	1	.	+	.	.	.	.	.	.
	Solidago virgaurea	E1	.	.	.	.	.	.	.	.	.
	Clematis alpina	E1	.	+	.	.	.	.	.	.	.
	Abies alba	E1	.	.	.	.	.	.	.	.	.
	Homogyne sylvestris	E1	.	.	.	.	.	.	.	.	.
AF	***Aremonio-Fagion***										
	Lamium orvala	E1	.	.	.	.	.	.	.	.	.
	Cardamine trifolia	E1	.	.	.	.	+	.	.	.	.
	Anemone trifolia	E1	.	+	.	.	.	.	.	.	.
	Cardamine enneaphyllos	E1	.	.	.	.	.	+	.	.	.
	Cyclamen purpurascens	E1	.	.	.	.	.	.	.	r	.
	Euphorbia carniolica	E1	.	.	.	.	.	.	.	.	+
	Scopolia carniolica	E1	.	.	.	.	.	.	.	.	.
	Omphalodes verna	E1	.	.	.	.	.	.	.	.	.
	Primula vulgaris	E1	.	.	.	.	.	.	.	.	.
TA	***Tilio-Acerion***										
	Geranium robertianum	E1	.	1	+	.	.	.	.	.	+

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1	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	3	12
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+	+	.	+	1	.	.	.	.	.	.	.	.	+	.	+	9	36

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9
	Aruncus dioicus	E1	.	.	.	.	.	.	.	.	.
	Polystichum aculeatum	E1	.	.	.	.	.	.	.	.	.
	Acer pseudoplatanus	E2a	.	.	.	.	.	.	.	.	.
	Euonymus latifolia	E2a	.	.	.	.	.	.	.	.	.
AI	***Alnion incanae***										
	Festuca gigantea	E1	.	.	+	.	.	.	.	.	.
FS	***Fagetalia sylvaticae***										
	Galeobdolon flavidum	E1	r	+	.	.	1	.	.	r	.
	Mycelis muralis	E1	.	.	.	.	.	.	r	r	.
	Salvia glutinosa	E1	.	.	.	.	.	.	.	.	.
	Actaea spicata	E1	.	.	.	r	.	.	.	.	.
	Sambucus nigra	E2a	.	.	.	.	.	.	.	.	.
	Mercurialis perennis	E1	.	1	.	.	.	.	.	.	.
	Dryopteris filix-mas	E1	.	r	.	.	.	.	.	.	.
	Phyteuma spicatum subsp. *coeruleum*	E1	.	.	.	.	.	+	.	.	.
	Cardamine pentaphyllos	E1	.	.	.	.	.	+	.	.	.
	Campanula trachelium	E1	.	.	.	.	.	.	.	r	.
	Galium laevigatum	E1	.	.	.	.	.	.	.	.	.
	Poa nemoralis	E1	.	.	.	.	.	.	.	.	.
	Fagus sylvatica	E2a	.	.	.	.	.	.	.	.	.
	Fraxinus excelsior	E2a	.	.	.	.	.	.	.	.	.
	Lonicera alpigena	E2a	.	.	.	.	.	.	.	.	.
	Petasites albus	E1	.	.	.	.	.	.	.	.	.
	Daphne mezereum	E2a	.	.	.	.	.	.	.	.	.
QP	***Quercetalia pubescenti-petraeae***										
	Ostrya carpinifolia	E1	.	.	.	.	.	.	.	.	.
	Euonymus verrucosa	E2a	.	.	.	.	.	.	.	.	.
QF	***Querco-Fagetea***										
	Aegopodium podagraria	E1	.	1	.	.	.	.	.	.	.
	Carex digitata	E1	.	.	.	.	.	.	.	.	.
	Corylus avellana	E2a	.	.	.	.	.	.	.	.	.
ML	**Mosses (Mahovi)**										
	Mnium thomsonii	E0	.	.	.	.	2	.	+	.	.
	Tortella tortuosa	E0	.	.	.	.	.	.	.	.	.
	Plagiochila porelloides	E0	.	.	.	.	+	.	.	.	.
	Exertotheca crispa (Neckera crispa)	E0	.	.	.	.	.	.	+	.	.
	Pedinophyllum interruptum	E0	.	.	.	.	.	.	.	.	.
	Ctenidium molluscum	E0	.	.	.	.	.	.	.	.	.
	Plagiomnium rostratum	E0	.	.	.	.	.	.	.	.	.
	Lophozia sp.	E0	.	.	.	.	.	.	.	.	.
	Reboulia hemisphaerica	E0	.	.	+	.	.	.	.	.	.
	Brachythecium rutabulum	E0	.	.	.	1	.	.	.	.	.
	Dichodontium pellucidum	E0	.	.	.	1	.	.	.	.	.
	Mnium lycopodioides	E0	.	.	.	.	.	.	.	.	.
	Fissidens taxifolius	E0	.	.	.	.	.	.	.	.	.
	Alleniella complanata (Neckera complanata)	E0	.	.	.	.	.	.	.	.	.
	Ptychostomum capillare (Bryum capillare)	E0	.	.	.	.	.	.	.	.	.
	Encalypta streptocarpa	E0	.	.	.	.	.	.	.	.	.
	Amblystegium serpens	E0	.	.	.	.	.	.	.	.	.
	Philonotis caespitosa	E0	.	.	.	.	.	.	.	.	.
	Entodon concinnus	E0	.	.	.	.	.	.	.	.	.

Legend - Legenda

L Limestone - apnenec
Ch Chert - roženec
D Dolomite - dolomit
Deb Debris - grušč
M Marlstone - laporovec
Li Lithosol - kamnišče
Pr. Presence (number of relevés in which the species is presented) - število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % - frekvenca v %
1-11 *Veronico urticifoliae-Violetum biflorae* var. *typica*
12-15 *Veronico urticifoliae-Violetum biflorae* var. *Astrantia carniolica*
16-25 *Veronico urticifoliae-Violetum biflorae* var. *Palustriella commutata*
18-19 *Veronico urticifoliae-Violetum biflorae* var. *Palustriella commutata* subvar. *Primula auricula*

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Pr.	Fr.
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+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	8
+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	2	8
.	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	2	8
.	.	.	.	1	1	.	.	.	.	.	.	.	.	.	.	2	8
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	1	4
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	4
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4

Table 9 (Preglednica 9): ***Paederoto luteae-Violetum biflorae, Cerastio subtriflorae-Violetum biflorae***

Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	
Database number of relevé (Delovna številka popisa)		281817	281818	281819	281821	280538	282450	282905	286986	257739	282101	
Elevation in m (Nadmorska višina v m)		1000	1000	1000	1000	424	1850	1460	1330	1689	1850	
Aspect (Lega)		SW	SW	SW	SW	NE	NW	N	SE	NE	W	
Slope in degrees (Nagib v stopinjah)		90	90	90	100	80	30	90	85	1	45	
Parent material (Matična podlaga)		LM	LM	LM	LM	D	Li	Br	Li	Deb	Deb	
Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	
Stoniness in % (Kamnitost v %)		100	100	100	100	80	100	100	100	30	10	
Cover of herb layer in % (Zastiranje zeliščne plasti v %):		60	30	35	35	40	60	30	30	80	90	
Cover of moss layer in % (Zastiranje mahovne plasti v %):		40	40	30	20	80	50	60	20	40	60	
Number of species (Število vrst)		13	13	14	13	15	9	25	24	12	18	
Relevé area (Velikost popisne ploskve)	m^2	10	10	10	10	4	4	10	20	3	2	
Date of taking relevé (Datum popisa)		6/29/2020	6/29/2020	6/29/2020	6/29/2020	4/27/2020	7/14/2020	10/9/2020	8/19/2021	8/7/2015	7/29/2020	
Locality (Nahajališče)		Drežniške Ravne-Curk	Drežniške Ravne-Curk	Drežniške Ravne-Curk	Drežniške Ravne-Curk	Kozijska grapa-Trebuša	Mangart	Apica- Lope	Gozdec	Lopučnica	Mangart	
Quadrant (Kvadrant)		9747/2	9747/2	9747/2	9747/2	9948/2	9547/4	9648/1	9646/4	9648/4	9547/4	
Coordinate GK Y (D-48)	m	395259	395250	395241	395217	408624	395771	399169	383688	405543	395797	
Coordinate GK X (D-48)	m	5126193	5126194	5126199	5126198	5105358	5144632	5138191	5133742	5130335	5144545	
Diagnostic species of syntaxa (Diagnostične vrste sintaksonov)												Pr. Fr.
AP *Viola biflora*	E1	2	1	3	1	3	3	2	2	4	4	10 100
AP *Paederota lutea*	E1	2	2	.	+	.	+	1	1	+	.	7 70
TR *Trisetum argenteum*	E1	1	1	+	+	.	.	.	.	.	.	4 40
MC *Saxifraga aizoides*	E1	2	1	+	.	.	.	.	.	.	.	3 30
AP *Marchantia quadrata (Preissia quadrata)*	E0	1	1	1	.	.	.	.	.	.	.	3 30
MuA *Saxifraga rotundifolia*	E1	.	.	.	.	1	.	.	.	.	.	1 10
AP *Cystopteris fragilis*	E1	.	.	.	.	.	2	3	+	.	.	3 30
MC *Conocephalum conicum*	E0	.	.	.	+	.	3	2	.	.	.	3 30
PcSp *Campanula carnica*	E1	.	.	.	+	.	.	.	1	.	.	2 20
AF *Cyclamen purpurascens*	E1	.	.	.	.	.	.	.	1	.	.	1 10
AP *Heliosperma pusillum*	E1	.	.	.	.	.	.	1	.	1	+	3 30
AC *Saxifraga sedoides*	E1	.	.	.	.	.	.	.	.	3	.	1 10
TR *Cystopteris montana*	E1	.	.	.	.	.	.	+	.	1	.	2 20
TR *Festuca nitida*	E1	.	.	.	.	.	.	+	.	.	1	2 20
AC *Sanionia uncinata*	E0	.	.	.	.	.	.	.	.	.	3	1 10
AC *Doronicum glaciale*	E1	.	.	.	.	.	.	.	.	.	2	1 10
ES *Cerastium subtriflorum*	E1	.	.	.	.	.	.	.	.	.	1	1 10
AP ***Astrantio carniolicae-Paederotion luteae***												
Palustriella commutata	E0	2	1	1	.	1	.	1	.	.	2	6 60
Hymenostylium recurvirostrum	E0	2	1	3	1	4	.	.	.	.	.	5 50
Aster bellidiastrum	E1	2	1	2	.	.	.	1	.	.	.	4 40
Carex brachystachys	E1	1	+	+	.	.	.	.	+	.	.	4 40
Orthothecium rufescens	E0	.	.	.	+	+	.	1	.	2	.	4 40
Apopellia endiviifolia (Pellia endiviifolia)	E0	+	.	1	1	.	.	.	+	.	.	4 40
Fissidens dubius	E0	.	.	.	.	+	.	+	.	.	.	2 20
Asplenium viride	E1	.	.	.	.	.	.	+	.	.	+	2 20

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	Pr.	Fr.
	Valeriana saxatilis	E1	+	.	.	.	.	.	.	.	.	.	1	10
	Astrantia carniolica	E1	.	.	.	.	1	.	.	.	.	.	1	10
	Pinguicula alpina	E1	.	.	.	.	.	.	+	.	.	.	1	10
	Valeriana tripteris	E1	.	.	.	.	.	.	.	+	.	.	1	10
PcSp	***Physoplexido comosae-Saxifragion petraeae***													
	Moehringia villosa	E1	+	.	.	.	.	.	.	.	.	.	1	10
PcSp	***Potentiletalia caulescentis***													
	Saxifraga crustata	E1	.	+	.	r	.	.	.	.	.	.	2	20
AT	***Asplenietea trichomanis***													
	Asplenium trichomanes	E1	.	+	.	1	.	.	.	+	.	.	3	30
	Asplenium ruta-muraria	E1	.	.	.	.	.	.	.	1	.	.	1	10
	Moehringia muscosa	E1	.	.	.	.	.	.	.	+	.	.	1	10
TR	***Thlaspietea trotundifolii***													
	Adenostyles glabra	E1	+	.	+	.	.	.	.	+	.	.	3	30
MC	***Montio-Cardaminetea***													
	Oxyrrhynchium schleicheri	E0	.	.	.	.	+	.	+	.	.	.	2	20
	Flexitrichum flexicaule (Ditrichum flexicaule)	E0	.	.	.	.	.	.	1	.	.	+	2	20
	Oxyrrhynchium hians	E0	.	.	.	.	+	.	.	.	.	.	1	10
	Ptychostomum pseudotriquetrum (Bryum pseudotriquetrum)	E0	.	.	.	.	.	.	.	.	.	+	1	10
CD	***Caricetalia davallianae***													
	Campylium stellatum	E0	.	.	.	.	.	.	+	.	.	+	2	20
	Parnassia palustris	E1	.	.	.	.	.	.	.	.	+	.	1	10
ES	***Elyno-Seslerietea***													
	Erigeron glabratus	E1	.	.	.	+	.	.	.	.	.	.	1	10
	Sesleria caerulea	E1	.	.	.	.	.	.	.	+	.	.	1	10
	Polygonum viviparum	E1	.	.	.	.	.	.	.	.	.	+	1	10
Mo	***Molinion***													
	Caltha palustris	E1	.	.	.	.	+	.	.	.	.	.	1	10
MuA	***Mulgedio-Aconitetea***													
	Ranunculus platanifolius	E1	.	.	.	.	.	.	.	+	.	.	1	10
EP	***Erico-Pinetea***													
	Calamagrostis varia	E1	.	.	+	.	.	.	.	+	+	.	3	30
VP	***Vaccinio-Piceetea***													
	Veronica urticifolia	E1	.	.	r	.	.	.	.	1	.	.	2	20
	Dryopteris expansa	E1	.	.	.	.	.	.	+	.	.	.	1	10
AF	***Aremonio-Fagion***													
	Cardamine enneaphyllos	E1	.	.	.	.	+	.	.	.	.	.	1	10
	Lamium orvala	E1	.	.	.	.	+	.	.	.	.	.	1	10
TA	***Tilio-Acerion***													
	Geranium robertianum	E1	.	+	r	+	+	.	.	.	.	.	4	40
FS	***Fagetalia sylvaticae***													
	Salvia glutinosa	E1	.	+	+	+	.	.	.	.	.	.	3	30
	Cardamine pentaphyllos	E1	.	.	.	.	+	.	.	.	.	.	1	10
	Mycelis muralis	E1	.	.	.	.	+	.	.	.	.	.	1	10
	Galeobdolon flavidum	E1	.	.	.	.	.	.	.	+	.	.	1	10
ML	**Mosses (Mahovi)**													
	Mnium marginatum	E0	.	.	.	.	.	1	+	.	+	.	3	30
	Tortella tortuosa	E0	.	.	.	.	.	.	1	+	.	.	2	20
	Plagiomnium rostratum	E0	.	.	.	.	.	3	.	.	.	.	1	10
	Brachythecium tenuicaule	E0	.	.	.	.	.	+	.	.	.	.	1	10
	Pedinophyllum interruptum	E0	.	.	.	.	.	+	.	.	.	.	1	10
	Pohlia wahlenbergii	E0	.	.	.	.	.	+	.	.	.	.	1	10
	Campylophyllum halleri	E0	.	.	.	.	.	.	1	.	.	.	1	10
	Didymodon fallax	E0	.	.	.	.	.	.	1	.	.	.	1	10
	Lophozia sp.	E0	.	.	.	.	.	.	1	.	.	.	1	10
	Mnium thomsonii	E0	.	.	.	.	.	.	1	.	.	.	1	10
	Aneura pinguis	E0	.	.	.	.	.	.	+	.	.	.	1	10
	Rhynchostegium murale	E0	.	.	.	.	.	.	+	.	.	.	1	10
	Isothecium alopecuroides	E0	.	.	.	.	.	.	.	1	.	.	1	10
	Anomodon viticulosus	E0	.	.	.	.	.	.	.	+	.	.	1	10
	Encalypta streptocarpa	E0	.	.	.	.	.	.	.	+	.	.	1	10
	Exertotheca crispa (Neckera crispa)	E0	.	.	.	.	.	.	.	+	.	.	1	10
	Schistidium apocarpum	E0	.	.	.	.	.	.	.	+	.	.	1	10

Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	Pr.	Fr.
Dermatocarpon miniatum	E0	.	.	.	.	.	.	.	+	.	.	1	10
Plagiochila asplenioides	E0	.	.	.	.	.	.	.	.	2	.	1	10
Ctenidium molluscum	E0	.	.	.	.	.	.	.	.	1	.	1	10
Scapania nemorea	E0	.	.	.	.	.	.	.	.	1	.	1	10
Climacium dendroides	E0	.	.	.	.	.	.	.	.	.	1	1	10
Pohlia cruda	E0	.	.	.	.	.	.	.	.	.	+	1	10
Polytrichastrum alpinum	E0	.	.	.	.	.	.	.	.	.	+	1	10
Timmia austriaca	E0	.	.	.	.	.	.	.	.	.	+	1	10
Tritomaria quinquedentata	E0	.	.	.	.	.	.	.	.	.	+	1	10
Barbilophozia hatcheri	E0	.	.	.	.	.	.	.	.	.	+	1	10

Legend - Legenda
L Limestone - apnenec
Br Breccia - breča
D Dolomite - dolomit
Deb Debris - grušč
M Marsltone - laporovec
Li Lithosol - kamnišče
Pr. Presence (number of relevés in which the species is presented) - število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % - frekvenca v %
1-8 *Paederoto luteae-Violetum biflorae* nom. prov.
9 *Cerastio subtriflorae-Violetum biflorae*

Table 10 (Preglednica 10): *Asplenietea trichomanis* Liščak

Successive number of relevé (Zaporedna številka popisa)		1	3	2	4	5	6	7	8	9	10	11	
Database number of relevé (Delovna številka popisa)		281771	287144	273219	269623	287132	277661	285257	285258	282691	282699	287176	
Elevation in m (Nadmorska višina v m)		770	945	1060	1105	1090	410	560	555	530	525	350	
Aspect (Lega)		S	SW	W	SW	SSW	SW	SSE	SSE	NW	N	NW	
Slope in degrees (Nagib v stopinjah)		80	90	80	90	90	80	95	95	60	80	70	
Parent material (Matična podlaga)		L	LClCh	L	L	LR	LM	LCl	LCl	LCh	LCh	LMCh	
Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	
Stoniness in % (Kamnitost v %)		100	100	80	100	100	100	100	100	100	100	100	
Cover of herb layer in % (Zastiranje zeliščne plasti v %):		30	20	40	20	30	70	30	20	40	40	40	
Cover of moss layer in % (Zastiranje mahovne plasti v %):		5	5	10	5	5	5	5	5	30	40	20	
Number of species (Število vrst)		10	10	19	13	17	25	13	4	20	37	24	
Relevé area (Velikost popisne ploskve)	m^2	10	20	10	10	20	10	10	10	10	15	20	
Date of taking relevé (Datum popisa)		6/24/2020	8/10/2021	9/18/2018	6/9/2017	8/10/2021	6/26/2019	4/8/2021	4/8/2021	9/15/2020	9/15/2020	6/18/2021	
Locality (Nahajališče)		Liščak-Sopot	Liščak povirje	Liščak-Mlečni rob	Liščak-Grantarska poljana	Liščak-Grantarska poljana	Liščak-Drsela	Liščak-Lisec	Liščak	Liščak	Liščak	Liščak	
Quadrant (Kvadrant)		9749/3	9749/3	9849/1	9749/3	9749/3	9849/1	9749/3	9749/3	9849/1	9849/1	9849/1	
Coordinate GK Y (D-48)	m	411710	411754	412219	412053	412042	411154	411533	411539	411374	411406	410918	
Coordinate GK X (D-48)	m	5118614	5118936	5116788	5118969	5118972	5117371	5118070	5118072	5117858	5117910	5117042	
Diagnostic species of syntaxa (Diagnostične vrste sintaksonov)													Pr.
AT *Sedum album*	E1	1	+	1	1	3	.	.	.	.	.	.	5
ES *Sesleria caerulea*	E1	1	1	3	.	.	.	.	.	+	.	.	4
PcSp *Campanula carnica*	E1	1	.	.	.	1	.	.	.	.	.	.	2
PcSp *Silene hayekiana*	E1	+	.	.	.	.	.	.	.	.	.	.	1
TR *Arabis alpina*	E1	.	.	.	+	+	.	.	.	.	.	.	2
AT *Asplenium trichomanes*	E1	+	+	+	+	+	2	3	2	2	1	.	10
AP *Fissidens dubius*	E0	+	.	.	.	.	.	+	.	1	1	1	5
FS *Galeobdolon flavidum*	E1	.	.	.	.	.	.	.	.	1	1	3	3
AP *Valeriana tripteris*	E1	.	.	.	.	.	.	.	.	+	1	.	2
TA *Phyllitis scolopendrium*	E1	.	.	.	.	.	.	.	.	.	+	2	2
AP *Palustriella commutata*	E0	.	.	.	.	.	.	.	.	.	.	1	1
PsSp ***Physoplexido comosae-Saxifragion petraeae***													
Athamanta turbith	E1	.	.	1	.	.	.	.	.	.	.	.	1
AP ***Astrantio carniolicae-Paederotion luteae***													
Cystopteris fragilis	E1	.	.	.	1	+	.	.	.	.	+	.	3
Carex brachystachys	E1	.	.	.	.	.	+	.	.	.	+	.	2
Orthothecium rufescens	E0	.	.	.	.	.	.	+	.	.	1	.	2
Eucladium verticillatum	E0	.	.	.	.	.	.	+	.	.	.	.	1
Asplenium viride	E1	.	.	.	.	.	.	.	.	.	1	.	1
Hydrogonium croceum (Barbula crocea)	E0	.	.	.	.	.	.	.	.	.	+	.	1
Hymenostylium recurvirostrum	E0	.	.	.	.	.	.	.	.	.	+	.	1
Apopellia endiviifolia (Pellia endiviifolia)	E0	.	.	.	.	.	.	.	.	.	+	.	1
Jungermannia atrovirens	E0	.	.	.	.	.	.	.	.	.	+	.	1

	Successive number of relevé (Zaporedna številka popisa)		1	3	2	4	5	6	7	8	9	10	11	Pr.
AT	***Asplenietea trichomanis***													
	Asplenium ruta-muraria	E1	.	.	.	+	+	+	.	.	.	+	.	4
	Polypodium vulgare	E1	.	.	+	.	.	.	.	.	.	.	.	1
	Festuca stenantha	E1	.	.	.	.	r	.	.	.	.	.	.	1
	Moehringia muscosa	E1	.	.	.	.	.	.	+	.	.	.	.	1
TR	***Thlaspietea rotundifolii***													
	Gymnocarpium robertianum	E1	.	.	.	.	.	+	.	.	.	+	.	2
	Achnatherum calamagrostis	E1	.	+	.	.	.	.	.	.	.	.	.	1
	Hieracium bifidum	E1	.	.	.	.	.	+	.	.	.	.	.	1
	Adenostyles glabra	E1	.	.	.	.	.	.	.	.	.	1	.	1
MC	***Montio-Cardaminetea***													
	Conocephalum conicum	E0	.	.	.	.	.	+	+	.	.	+	.	3
	Gymnostomum aeruginosum	E0	.	1	.	.	+	.	.	.	.	.	.	2
	Oxyrrhynchium hians	E0	.	.	.	.	.	.	.	.	.	1	+	2
	Oxyrrhynchium schleicheri	E0	.	.	.	.	.	.	+	.	.	.	.	1
	Brachythecium rivulare	E0	.	.	.	.	.	.	.	.	1	.	.	1
	Cololejeunea calcarea	E0	.	.	.	.	.	.	.	.	.	1	.	1
ES	***Elyno-Seslerietea***													
	Festuca calva	E1	.	.	.	+	1	.	.	.	.	.	.	2
	Erigeron glabratus	E1	.	.	+	.	.	.	.	.	.	.	.	1
FB	***Festuco-Brometea***													
	Dianthus monspessulanus	E1	.	+	+	.	+	.	.	.	.	.	.	3
	Allium carinatum subsp. *pulchellum*	E1	.	.	+	.	.	.	.	.	.	.	.	1
	Thymus praecox	E1	.	.	+	.	.	.	.	.	.	.	.	1
	Bromopsis erecta	E1	.	.	.	.	r	.	.	.	.	.	.	1
	Buphthalmum salicifolium	E1	.	.	.	.	.	.	.	.	.	+	.	1
TG	***Trifolio-Geranietea***													
	Campanula rapunculoides	E1	r	+	.	.	.	+	+	.	.	.	.	4
	Digitalis grandiflora	E1	.	.	.	.	.	+	.	.	.	.	.	1
	Hypericum perforatum	E1	.	.	.	.	.	+	.	.	.	.	.	1
	Laserpitium latifolium	E1	+	.	.	.	.	.	.	.	.	.	.	1
	Libanotis daucifolia	E1	+	.	.	.	.	.	.	.	.	.	.	1
	Silene nutans	E1	.	+	.	.	.	.	.	.	.	.	.	1
	Achillea distans	E1	.	.	.	.	+	.	.	.	.	.	.	1
Mo	***Molinion***													
	Angelica sylvestris	E1	.	.	.	.	.	.	.	.	.	+	.	1
EP	***Erico-Pinetea***													
	Calamagrostis varia	E1	.	.	.	.	.	.	r	.	.	.	+	2
EA	***Epilobietea angustifolii***													
	Rubus idaeus	E1	.	.	.	.	+	.	.	.	.	.	.	1
	Bromopsis benekenii	E1	.	.	.	.	.	+	.	.	.	.	.	1
MuA	***Mulgedio-Aconitetea***													
	Senecio ovatus	E1	.	.	.	.	+	.	.	.	1	+	.	3
	Aconitum angustifolium	E1	.	.	.	.	.	.	.	.	.	+	.	1
VP	***Vaccinio-Piceetea***													
	Oxalis acetosella	E1	.	.	.	.	.	.	.	+	+	+	+	4
	Veronica urticifolia	E1	+	.	.	.	.	.	.	.	.	+	.	2
	Solidago virgaurea	E1	.	.	.	.	.	.	.	.	.	+	.	1
AF	***Aremonio-Fagion***													
	Cardamine trifolia	E1	.	.	.	.	.	.	.	.	+	1	.	2
	Cyclamen purpurascens	E1	.	.	.	.	.	.	.	+	+	.	.	2
TA	***Tilio-Acerion***													
	Geranium robertianum	E1	.	.	.	+	+	+	.	.	.	.	.	3
	Tephroseris pseudocrispa	E1	.	.	.	.	.	+	.	.	1	.	.	2
	Polystichum setiferum	E1	.	.	.	.	.	+	.	.	.	.	1	2
	Acer pseudoplatanus	E1	.	.	.	.	.	.	.	.	.	.	+	1
	Aruncus dioicus	E1	.	.	.	.	.	.	.	.	.	.	+	1
	Polystichum aculeatum	E1	.	.	.	.	.	.	.	.	.	.	+	1
FS	***Fagetalia sylvaticae***													
	Salvia glutinosa	E1	.	+	.	+	+	+	.	.	1	+	.	6
	Galium laevigatum	E1	.	.	.	.	.	+	.	.	.	+	+	3
	Poa nemoralis	E1	.	.	.	+	.	1	.	.	.	.	.	2

	Successive number of relevé (Zaporedna številka popisa)		1	3	2	4	5	6	7	8	9	10	11	Pr.
	Asarum europaeum subsp. *caucasicum*	E1	.	.	.	.	.	+	.	.	.	+	.	2
	Fagus sylvatica	E1	.	.	.	+	.	.	.	.	.	.	.	1
	Myosotis sylvatica	E1	.	.	.	+	.	.	.	.	.	.	.	1
	Brachypodium sylvaticum	E1	.	.	.	.	.	+	.	.	.	.	.	1
	Campanula trachelium	E1	.	.	.	.	.	+	.	.	.	.	.	1
	Circaea lutetiana	E1	.	.	.	.	.	+	.	.	.	.	.	1
	Dryopteris filix-mas	E1	.	.	.	.	.	+	.	.	.	.	.	1
	Mycelis muralis	E1	.	.	.	.	.	+	.	.	.	.	.	1
	Petasites albus	E1	.	.	.	.	.	.	.	.	.	.	+	1
QP	***Quercetalia pubescenti-petraeae***													
	Sesleria autumnalis	E1	.	.	.	.	.	.	.	.	+	+	.	2
	Primula veris subsp. *columnae*	E1	.	.	.	+	.	.	.	.	.	.	.	1
	Arabis turrita	E1	.	.	.	.	.	+	.	.	.	.	.	1
	Fraxinus ornus	E1	.	.	.	.	.	.	.	.	.	.	+	1
QP	***Querco-Fagetea***													
	Hedera helix	E1	.	.	.	.	.	+	.	.	+	.	+	3
	Carex digitata	E1	.	.	.	.	.	.	.	.	1	+	.	2
	Vinca minor	E1	.	.	.	.	.	.	r	.	.	.	.	1
	Taxus baccata	E2a	.	.	.	.	.	.	.	.	+	.	.	1
	Hepatica nobilis	E1	.	.	.	.	.	.	.	.	.	.	+	1
	Veratrum nigrum	E1	.	.	.	.	.	.	.	.	.	.	+	1
ML	**Mosses (Mahovi)**													
	Ctenidium molluscum	E0	.	.	.	.	.	.	.	+	1	1	1	4
	Isothecium alopecuroides	E0	.	1	.	.	.	.	.	.	1	.	1	3
	Tortella tortuosa	E0	.	.	1	.	.	1	+	.	.	.	.	3
	Mnium marginatum	E0	.	.	.	.	.	.	+	.	1	1	1	4
	Plagiomnium rostratum	E0	.	.	.	.	.	.	.	.	+	1	.	2
	Homalothecium lutescens	E0	.	.	1	.	.	.	.	.	.	.	.	1
	Schistidium apocarpum	E0	.	.	1	.	.	.	.	.	.	.	.	1
	Encalypta streptocarpa	E0	.	.	.	1	.	.	.	.	.	.	.	1
	Anomodon viticulosus	E0	.	.	.	.	1	.	.	.	.	.	.	1
	Chionoloma tenuirostre (Oxystegus tenuirostre)	E0	.	.	.	.	.	.	+	.	.	.	.	1
	Didymodon insulanus	E0	.	.	.	.	.	.	.	.	.	+	.	1
	Rhynchostegium murale	E0	.	.	.	.	.	.	.	.	.	+	.	1
	Plagiomnium undulatum	E0	.	.	.	.	.	.	.	.	.	.	1	1
	Thamnobryum alopecurum	E0	.	.	.	.	.	.	.	.	.	.	1	1
	Exertotheca crispa (Neckera crispa)	E0	.	.	.	.	.	.	.	.	.	.	+	1
	Plagiochila porelloides	E0	.	.	.	.	.	.	.	.	.	.	+	1

Legend - Legenda

1 *Sileno hayekianae-Campanuletum carnicae* nom. prov.
2-3 *Seslerio caeruleae-Sedetum albi* nom. prov.
4-5 *Arabido alpinae-Sedetum albi* nom. prov.
6-8 *Tortello tortuosae-Asplenietum trichomanis* nom. prov.
9-10 *Valeriano tripteridis-Veronicetum urticifoliae* nom. prov.
11 *Palustriello commutati-Phyllitidetum scolopendrii* nom. prov.
L Limestone - apnenec
Ch Chert - roženec
Cl Claystone - glinavec
M Marlstone - laporovec
Li Lithosol - kamnišče
Pr. Presence (number of relevés in which the species is presented) - število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % - frekvenca v %

Table 11: Communities of moist rock crevices in NW and W Slovenia
Preglednica 11: Združbe vlažnih skalnih razpok v severozahodni in zahodni Sloveniji

Successive number (Zaporedna številka)		1	2	3	4	5	6	7	8
Number of relevés (Število popisov)		14	18	18	25	10	33	28	10
Sign for syntaxa (Oznaka sintaksonov)		AcPa	PcAc	VbAc	VuVb	PcVu	VuSc	CvAb	CsSaac
Number of species (Število vrst)		55	78	101	119	72	112	138	53
Astrantio carniolicae-Paederotion luteae									
Pinguicula alpina	E1	100	28	22	4	.	.	4	.
Hymenostylium recurvirostrum	E0	100	67	38	48	50	6	14	20
Palustriella commutata	E0	100	83	38	48	100	22	7	30
Aster bellidiastrum	E1	86	28	61	32	.	6	100	10
Astrantia carniolica	E1	71	100	100	24	20	3	4	.
Apopellia endiviifolia (Pellia endiviifolia)	E0	57	56	11	32	60	9	18	30
Carex brachystachys	E1	50	61	78	40	10	12	11	.
Orthothecium rufescens	E0	43	50	89	76	10	12	.	.
Eucladium verticillatum	E0	43	28	.	4	10	6	4	.
Tofieldia calyculata	E1	36	17	17	.	.	.	7	.
Valeriana tripteris	E1	29	11	17	24	30	39	18	.
Marchantia quadrata (Preissia quadrata)	E0	21	5	22	.	.	.	4	.
Fissidens dubius	E0	14	17	33	20	40	55	4	.
Hydrogonium croceum (Barbula crocea)	E0	14	33	17	12	.	9	18	20
Jungermannia atrovirens	E0	14	6	.	16	.	3	14	.
Valeriana saxatilis	E1	7	22	44	4	.	.	4	.
Saxifraga aizoides	E1	7	.	.	.	.	.	.	.
Paederota lutea	E1	.	22	67	24	10	3	14	.
Asplenium viride	E1	.	17	72	64	10	6	.	.
Viola biflora	E1	.	.	100	100	.	3	4	.
Heliosperma pusillum	E1	.	.	39	.	.	.	.	.
Cystopteris fragilis	E1	.	.	33	44	20	15	11	.
Cystopteris regia	E1	.	.	33	.	.	.	.	.
Cyrtomnium hymenophylloides	E0	.	.	11	.	.	.	.	.
Primula carniolica	E1	.	.	.	4	.	.	.	.
Selaginella helvetica	E1	.	.	.	.	.	.	14	.
Physoplexido comosae-Saxifragion petraeae									
Campanula cespitosa	E1	29	.	6	.	.	.	21	100
Hieracium porrifolium	E1	7	6	6	.	.	.	14	80
Hieracium pospichalii	E1	.	6	.	.	.	.	21	.
Campanula zoysii	E1	.	.	17	.	.	.	4	.
Campanula carnica	E1	.	.	11	12	30	3	14	.
Phyteuma scheuchzeri subsp. *columnae*	E1	.	.	6	12	.	18	4	.
Saxifraga petraea	E1	.	.	.	.	.	18	.	.
Athamanta turbith	E1	.	.	.	.	.	.	11	.
Micromeria thymifolia	E1	.	.	.	.	.	.	7	.
Potentilletalia caulescentis									
Saxifraga crustata	E1	7	6	.	.	10	3	.	70
Campanula cochleariifolia	E1	.	.	33	.	.	.	.	.
Arabis stellulata	E1	.	.	22	.	.	.	.	.
Primula auricula	E1	.	.	22	8	.	.	.	.
Potentilla caulescens	E1	.	.	11	4	.	.	4	.
Hieracium humile	E1	.	.	6	.	.	.	.	.
Potentilla clusiana	E1	.	.	6	.	.	.	.	.
Festuca stenantha	E1	.	.	.	.	.	.	7	.
Saxifraga hostii	E1	.	.	.	.	.	.	7	.
Asplenietea trichomanis									
Asplenium ruta-muraria	E1	21	6	28	12	30	21	14	.
Asplenium trichomanes	E1	14	28	17	56	100	97	11	.
Kernera saxatilis	E1	.	6	6	4	.	.	.	.
Polypodium interjectum	E1	.	6	.	.	.	.	.	.
Moehringia muscosa	E1	.	.	6	4	.	27	.	.
Polypodium vulgare	E1	.	.	.	.	.	6	.	.
Sedum album	E1	.	.	.	.	.	3	.	.
Sedum hispanicum	E1	.	.	.	.	.	3	.	.
Ceterach javorkeanum	E1	.	.	.	.	.	3	.	.

Successive number (Zaporedna številka)		1	2	3	4	5	6	7	8
Thlaspietea rotundifolii									
Hieracium bifidum	E1	50	17	22	12	10	18	36	30
Petasites paradoxus	E1	43	6	6	.	.	.	21	10
Adenostyles glabra	E1	29	44	67	48	50	6	11	10
Gymnocarpium robertianum	E1	.	6	22	20	10	.	11	.
Achnatherum calamagrostis	E1	.	6	.	.	.	.	14	100
Peucedanum verticillare	E1	.	6	.	.	.	.	7	.
Soldanella minima	E1	.	.	17	.	.	.	4	.
Hieracium bifidum	E1	.	.	22	.	.	.	.	.
Gypsophila repens	E1	.	.	11	.	.	.	.	.
Festuca nitida	E1	.	.	11	.	.	.	.	.
Cystopteris montana	E1	.	.	11	.	.	.	.	.
Saxifraga caesia	E1	.	.	6	.	.	.	.	.
Arabis alpina	E1	.	.	6	.	.	.	.	.
Athamanta cretensis	E1	.	.	6	.	.	.	.	.
Biscutella laevigata	E1	.	.	6	.	.	.	.	.
Cerastium carinthiacum	E1	.	.	6	.	.	.	.	.
Trisetum argenteum	E1	.	.	6	8	.	.	21	30
Hieracium glaucum	E1	.	.	.	.	.	.	7	90
Poa compressa	E1	.	.	.	.	.	.	7	.
Centaurea dichroantha	E1	.	.	.	.	.	.	4	.
Hieracium piloselloides	E1	.	.	.	.	.	.	4	.
Hieracium dollineri	E1	.	.	.	.	.	.	.	10
Montio-Cardaminetea									
Conocephalum conicum	E0	14	56	44	100	100	42	25	.
Aneura pinguis	E0	7	.	.	.	.	.	4	.
Oxyrrhynchium hians	E0	.	22	.	20	40	21	4	.
Cratoneuron filicinum	E0	.	17	11	.	10	3	7	.
Brachythecium rivulare	E0	.	17	.	.	20	.	25	.
Ptychostomum pseudotriquetrum (Bryum pseudotriquetrum)	E0	.	11	6	.	.	.	.	.
Oxyrrhynchium schleicheri	E0	.	6	6	12	40	.	.	.
Rhynchostegium riparioides (Platyhypnidium riparioides)	E0	.	6	.	4	20	.	.	.
Gymnostomum aeruginosum	E0	.	6	.	.	.	6	.	.
Cololejeunea calcarea	E0	.	.	6	4	.	.	4	.
Flexitrichum flexicaule (Ditrichum flexicaule)	E0	.	.	.	4	.	.	.	.
Fontinalis antipyretica subsp. *antipyretica*	E0	.	.	.	4	.	.	4	.
Palustriella decipiens	E0	.	.	.	.	.	.	4	.
Calliergonella cuspidata	E0	.	.	.	.	.	.	4	.
Saxifraga aizoides	E1	.	.	.	.	.	.	.	100
Caricetalia davallianae									
Campylium stellatum	E0	7	6	6	8	.	.	4	.
Carex lepidocarpa	E1	7	.	.	.	.	.	4	.
Campylophyllopsis calcarea (Campylium calcareum)	E0	7	.	.	.	.	.	.	.
Calliergonella lindbergii	E0	.	.	.	.	10	.	.	.
Carex flava agg.	E1	.	.	.	.	.	.	4	.
Elyno-Seslerietea									
Sesleria caerulea	E1	50	33	39	16	10	9	25	30
Carex mucronata	E1	.	22	.	.	.	.	4	.
Betonica alopecuros	E1	.	11	.	.	.	.	.	.
Carex firma	E1	.	.	28	.	.	.	.	.
Laserpitium peucedanoides	E1	.	.	22	.	.	.	.	.
Carex ferruginea	E1	.	.	17	4	.	.	4	10
Achillea atrata	E1	.	.	6	.	.	.	.	.
Globularia cordifolia	E1	.	.	6	.	.	.	.	.
Selaginella selaginoides	E1	.	.	6	.	.	.	.	.
Ranunculus hybridus	E1	.	.	6	.	.	.	.	.
Phyteuma orbiculare	E1	.	.	6	.	.	.	.	.
Sesleria tenuifolia subsp. kalnikensis	E1	.	.	.	.	.	3	.	.
Carex ornithopodoides	E1	.	.	.	.	.	.	11	.
Erigeron glabratus	E1	.	.	.	.	.	.	4	.
Poo alpinae-Trisetetalia									
Poa alpina	E1	.	.	.	.	.	.	4	.

Successive number (Zaporedna številka)		1	2	3	4	5	6	7	8
Molinio-Arrhenatheretea									
Angelica sylvestris	E1	14	17	.	12	.	.	4	.
Crepis paludosa	E1	.	17	.	8	.	.	4	.
Caltha palustris	E1	.	6	.	8	.	.	.	.
Taraxacum sect. *Palustria*	E1	.	.	.	.	.	.	7	.
Filipendula ulmaria	E1	.	.	.	.	.	.	4	.
Deschampsia cespitosa	E1	.	.	.	.	.	.	14	.
Prunella vulgaris	E1	.	.	.	.	.	.	11	.
Leontodon hispidus	E1	.	.	.	.	.	.	7	.
Agrostis stolonifera	E1	.	.	.	.	.	.	4	.
Dactylis glomerata	E1	.	.	.	.	.	.	4	.
Galium mollugo	E1	.	.	.	.	.	.	4	.
Taraxacum sect. *Ruderalia*	E1	.	.	.	.	.	.	4	.
Betulo-Alnetea									
Salix appendiculata	E2a	21	6	11	.	.	3	36	20
Mulgedio-Aconitetea									
Senecio ovatus	E1	.	6	.	12	50	15	.	.
Aconitum angustifolium	E1	.	6	.	.	.	.	.	.
Chaerophyllum hirsutum	E1	.	6	.	.	.	.	.	.
Saxifraga rotundifolia	E1	.	.	17	16	.	3	.	.
Aconitum degenii subsp. *paniculatum*	E1	.	.	6	.	.	3	.	.
Aconitum lycoctonum subsp. *ranunculifolium*	E1	.	.	6	.	.	.	.	.
Chaerophyllum hirsutum	E1	.	.	6	24	.	.	14	.
Thalictrum aquilegiifolium	E1	.	.	.	8	.	.	.	.
Phyteuma ovatum	E1	.	.	.	4	.	3	.	.
Petasites hybridus	E1	.	.	.	.	.	.	7	.
Epilobietea angustifolii, Sambuco-Salicion capreae									
Eupatorium cannabinum	E1	21	22	.	.	.	.	14	20
Tussilago farfara	E1	7	.	.	.	.	.	11	20
Solanum dulcamara	E1	.	6	.	4	.	.	.	.
Verbascum lanatum	E1	.	6	.	.	.	.	.	.
Rubus idaeus	E1	.	.	.	4	10	.	.	.
Salix caprea	E2a	.	.	.	.	.	3	.	.
Cardamine hirsuta	E1	.	.	.	.	.	.	4	.
Carex oederi	E1	.	.	.	.	.	.	4	.
Fragaria vesca	E1	.	.	.	.	.	.	4	.
Galinsoga ciliata	E1	.	.	.	.	.	.	4	.
Trifolio-Geranietea									
Campanula rapunculoides	E1	.	.	.	12	20	3	14	.
Digitalis grandiflora	E1	.	.	.	.	10	3	.	.
Calamintha einseleana	E1	.	.	.	.	.	.	.	70
Hypericum perforatum	E1	.	.	.	.	.	3	4	20
Laserpitium siler	E1	.	.	.	.	.	3	.	.
Libanotis daucifolia	E1	.	.	.	.	.	.	.	20
Erico-Pinetea									
Calamagrostis varia	E1	86	78	67	36	20	9	86	10
Molinia arundinacea	E1	64	44	.	.	.	.	4	60
Erica carnea	E1	29	.	6	.	.	.	11	10
Buphthalmum salicifolium	E1	14	11	.	.	10	.	25	10
Carex ornithopoda	E1	14	.	.	4	.	3	21	.
Cirsium erisithales	E1	7	6	.	.	10	3	.	.
Rhodothamnus chamaecistus	E1	.	.	33	4	.	.	.	.
Rhododendron hirsutum	E1	.	.	22	.	.	.	.	.
Asperula aristata	E1	.	.	6	.	.	.	.	.
Aquilegia nigricans	E1	.	.	.	12	.	.	.	.
Carex alba	E1	.	.	.	4	.	.	.	.
Epipactis atrorubens	E1	.	.	.	.	.	.	.	10
Leontodon incanus	E1	.	.	.	.	.	.	.	7
Euphrasia cuspidata	E1	.	.	.	.	.	.	.	4
Rubus saxatilis	E1	.	.	.	.	.	.	.	4
Festuco-Brometea		.	.	.	.	.	.	.	.
Brachypodium rupestre	E1	.	.	.	.	.	.	4	10

Successive number (Zaporedna številka)		1	2	3	4	5	6	7	8
Thymus praecox	E1	.	.	.	.	.	.	4	10
Euphorbia cyparissias	E1	.	.	.	.	.	.	4	.
Koeleria pyramidata	E1	.	.	.	.	.	.	4	.
Linum catharticum	E1	.	.	.	.	.	.	4	.
Plantago media	E1	.	.	.	.	.	.	4	.
Taraxacum sect. *Erythrosperma*	E1	.	.	.	.	.	.	4	.
Carlina acaulis	E1	.	.	.	.	.	.	.	20
Bromopsis erecta	E1	.	.	.	.	.	.	.	20
Carex humilis	E1	.	.	.	.	.	.	.	10
Pimpinella saxifraga	E1	.	.	.	.	.	.	.	10
Vaccinio-Piceetea									
Veronica urticifolia	E1	14	61	39	80	100	82	46	10
Aposeris foetida	E1	7	6	.	.	.	3	.	.
Gentiana asclepiadea	E1	7	17	.	.	.	.	.	.
Saxifraga cuneifolia	E1	.	6	17	16	20	100	.	.
Homogyne sylvestris	E1	.	6	6	4	.	3	.	.
Oxalis acetosella	E1	.	.	11	20	30	30	7	.
Solidago virgaurea	E1	.	.	.	12	20	15	.	.
Clematis alpina	E1	.	.	.	4	.	.	7	.
Abies alba	E1	.	.	.	4	.	.	.	.
Calamagrostis arundinacea	E1	.	.	.	.	10	6	4	.
Hieracium murorum	E1	.	.	.	.	.	3	.	.
Larix decidua	E2a	.	.	.	.	.	.	.	10
Picea abies	E2a	.	.	.	.	.	.	.	10
Aremonio-Fagion, Erythronio-Carpinion									
Cyclamen purpurascens	E1	7	6	6	4	.	30	.	.
Primula vulgaris	E1	7	.	.	4	10	3	.	10
Cardamine trifolia	E1	.	6	6	8	60	12	.	.
Lamium orvala	E1	.	6	.	12	20	6	.	.
Anemone trifolia	E1	.	.	6	4	.	3	.	.
Scopolia carniolica	E1	.	.	.	4	.	3	.	.
Dentaria enneaphyllos	E1	.	.	.	4	.	3	.	.
Euphorbia carniolica	E1	.	.	.	4	.	.	.	.
Omphalodes verna	E1	.	.	.	4	.	.	.	.
Tilio-Acerion									
Aruncus dioicus	E1	7	28	11	28	20	15	18	
Geranium robertianum	E1	.	17	17	36	30	15	11	20
Phyllitis scolopendrium	E1	.	11	11	.	20	3	18	
Polystichum aculeatum	E1	.	11	.	4	.	9	.	
Acer pseudoplatanus	E1	.	6	.	4	.	9	.	
Ulmus glabra	E1	.	11	.	.	10	9	.	
Euonymus latifolia	E2a	.	.	.	4	.	.	.	
Circaea x intermedia	E1	.	.	.	.	10	.	.	
Polystichum setiferum	E1	.	.	.	.	10	9	.	
Polystichum x wirtgenii	E1	.	.	.	.	10	.	4	
Tephroseris pseudocrispa	E1	.	.	.	.	.	12	.	
Chrysosplenium alternifolium	E1	.	.	.	.	.	6	.	
Alnion incanae									
Knautia drymeia subsp. *intermedia*	E1	.	11	.	.	.	.	4	.
Cardamine impatiens	E1	.	6	.	.	.	.	.	.
Rubus caesius	E1	.	.	.	.	.	.	11	.
Alnus glutinosa	E2a	.	.	.	.	.	.	7	.
Salix eleagnos	E2a	.	.	.	.	.	.	4	.
Frangula alnus	E2a	.	.	.	.	.	.	4	.
Viburnum opulus	E2a	.	.	.	.	.	.	4	.
Fagetalia sylvaticae									
Galium laevigatum	E1	43	44	6	4	30	27	14	.
Salvia glutinosa	E1	29	6	.	20	20	15	11	.
Fagus sylvatica	E1	7	.	6	.	.	.	4	.
Mycelis muralis	E1	7	11	6	24	40	42	11	.
Galeobdolon flavidum	E1	.	39	28	40	70	58	14	.
Brachypodium sylvaticum	E1	.	17	.	.	.	.	7	.

Successive number (Zaporedna številka)		1	2	3	4	5	6	7	8
Petasites albus	E1	.	11	.	4	20	.	.	.
Fraxinus excelsior	E1	.	6	.	4	20	.	.	.
Dryopteris filix-mas	E1	.	6	.	4	.	.	.	.
Sambucus nigra	E2a	.	.	.	8	10	3	.	.
Poa nemoralis	E1	.	.	.	4	10	3	.	.
Campanula trachelium	E1	.	.	.	4	10	.	4	.
Cardamine pentaphyllos	E1	.	.	.	4	.	12	.	.
Mercurialis perennis	E1	.	.	.	4	.	9	.	.
Actaea spicata	E1	.	.	.	8	.	3	.	.
Daphne mezereum	E2a	.	.	.	4	.	.	.	.
Lonicera alpigena	E2a	.	.	.	4	.	.	.	.
Phyteuma spicatum subsp. *coeruleum*	E1	.	.	.	4	.	.	.	.
Asarum europaeum subsp. *caucasicum*	E1	.	.	.	.	10	15	.	.
Festuca altissima	E1	.	.	.	.	10	3	.	.
Prenanthes purpurea	E1	.	.	.	.	.	12	.	.
Allium ursinum	E1	.	.	.	.	.	3	.	.
Euphorbia dulcis	E1	.	.	.	.	.	3	.	.
Epilobium montanum	E1	.	.	.	.	.	.	4	.
Ranunculus lanuginosus	E1	.	.	.	.	.	.	4	.
Tilia cordata	E2a	.	.	.	.	.	.	4	.
Viola reichenbachiana	E1	.	.	.	.	.	.	4	.
Quercetalia pubescenti-petraeae									
Carex flacca	E1	29	11	.	.	.	.	.	10
Ostrya carpinifolia	E2a	7	.	.	4	.	3	14	60
Euonymus verrucosa	E2a	.	.	.	4	.	.	.	.
Sesleria autumnalis	E1	.	.	.	.	30	6	.	20
Arabis turrita	E1	.	.	.	.	20	12	.	.
Fraxinus ornus	E3a	.	.	.	.	.	.	.	10
Fraxinus ornus	E2a	.	.	.	.	.	3	.	50
Querco-Fagetea									
Hedera helix	E1	14	11	.	.	50	52	14	.
Carex digitata	E1	7	11	17	4	40	45	4	.
Clematis vitalba	E1	7	.	.	.	10	3	.	.
Potentilla erecta	E1	.	6	.	.	.	.	.	.
Aegopodium podagraria	E1	.	.	.	4	.	.	.	.
Corylus avellana	E2a	.	.	.	4	.	.	.	.
Veratrum nigrum	E1	.	.	.	.	10	18	.	.
Hepatica nobilis	E1	.	.	.	.	.	6	.	.
Festuca heterophylla	E1	.	.	.	.	.	3	.	.
Hieracium racemosum	E1	.	.	.	.	.	.	4	.
Hieracium umbellatum	E1	.	.	.	.	.	.	4	.
Viola riviniana	E1	.	.	.	.	.	.	4	.
Mosses (Mahovi)									
Tortella tortuosa	E0	7	.	22	12	10	18	54	90
Exertotheca crispa (Neckera crispa)	E0	7	.	11	8	.	70	4	.
Dichodontium pellucidum	E0	7	.	.	4	.	.	7	.
Didymodon fallax	E0	7	.	.	.	.	.	.	.
Seligera trifaria	E0	7	.	.	.	.	.	.	.
Plagiomnium rostratum	E0	.	17	.	8	40	6	14	.
Hygrohypnum luridum	E0	.	11	.	.	.	.	29	.
Mnium marginatum	E0	.	11	.	.	.	18	.	.
Ctenidium molluscum	E0	.	6	33	8	.	48	57	10
Plagiochila porelloides	E0	.	6	11	8	.	.	.	.
Lophozia sp.	E0	.	6	6	8	.	.	4	.
Alleniella complanata (Neckera complanata)	E0	.	6	.	4	.	3	.	.
Dichodontium pellucidum	E0	.	6	.	.	.	.	.	.
Trichostomum crispulum	E0	.	6	.	.	.	.	4	.
Chionoloma tenuirostre (Oxystegus tenuirostre)	E0	.	6	.	.	.	.	.	.
Microlejeunea ulicina	E0	.	6	.	.	.	.	.	.
Mnium thomsonii	E0	.	.	11	12	20	15	.	.
Plagiomnium undulatum	E0	.	.	11	.	10	15	.	.
Amblystegium serpens	E0	.	.	6	4	.	3	4	.

Successive number (Zaporedna številka)		1	2	3	4	5	6	7	8
Thamnobryum alopecurum	E0	.	.	6	.	30	18	4	.
Bryum sp.	E0	.	.	6	.	.	3	.	.
Pohlia wahlenbergii	E0	.	.	6	.	.	.	.	40
Campylophyllum halleri	E0	.	.	6	.	.	.	.	.
Didymodon acutus	E0	.	.	6	.	.	.	.	.
Lophozia obtusa	E0	.	.	6	.	.	.	.	.
Metzgeria conjugata	E0	.	.	6	.	.	.	.	.
Serpoleskea confervoides (Amblystegium confervoides)	E0	.	.	6	.	.	.	.	.
Myurella julacea	E0	.	.	6	.	.	.	.	.
Pedinophyllum interruptum	E0	.	.	.	8	10	6	18	.
Brachythecium rutabulum	E0	.	.	.	4	.	6	14	.
Encalypta streptocarpa	E0	.	.	.	4	.	6	7	.
Fissidens taxifolius	E0	.	.	.	4	.	.	.	.
Mnium lycopodioides	E0	.	.	.	4	.	.	.	.
Philonotis caespitosa	E0	.	.	.	4	.	.	.	.
Reboulia hemisphaerica	E0	.	.	.	4	.	.	.	.
Entodon concinnus	E0	.	.	.	4	.	.	.	.
Ptychostomum capillare (Bryum capillare)	E0	.	.	.	4	.	.	.	.
Mnium stellare	E0	.	.	.	.	10	.	.	.
Isothecium alopecuroides	E0	.	.	.	.	.	39	.	.
Anomodon viticulosus	E0	.	.	.	.	.	15	.	.
Pseudanomodon attenuatus (Anomodon attenuatus)	E0	.	.	.	.	.	12	.	.
Chionoloma tenuirostre (Oxystegus tenuirostre)	E0	.	.	.	.	.	6	.	.
Brachythecium salebrosum	E0	.	.	.	.	.	3	.	.
Homalothecium philippeanum	E0	.	.	.	.	.	3	.	.
Mnium spinulosum	E0	.	.	.	.	.	3	.	.
Weisia sp.	E0	.	.	.	.	.	3	.	.
Didymodon spadiceus	E0	.	.	.	.	.	.	21	.
Schistidium apocarpum	E0	.	.	.	.	.	.	18	.
Cirriphyllum crassinervium	E0	.	.	.	.	.	.	11	.
Mesoptychia collaris (Leiocolea collaris)	E0	.	.	.	.	.	.	4	.
Campylopus sp.	E0	.	.	.	.	.	.	4	.
Hypnum cupressiforme	E0	.	.	.	.	.	.	4	.
Pseudoleskeella catenulata	E0	.	.	.	.	.	.	4	.
Rhynchostegium murale	E0	.	.	.	.	.	.	4	.
Jungermannia sp.	E0	.	.	.	.	.	.	4	.
Sciuro-hypnum starkei (Brachythecium starkei)	E0	.	.	.	.	.	.	4	.
Didymodon insulanus	E0	.	.	.	.	.	.	4	.
Dichodontium flavescens	E0	.	.	.	.	.	.	4	.
Plagiomnium elatum	E0	.	.	.	.	.	.	4	.
Hylocomium splendens	E0	.	.	.	.	.	.	4	.
Didymodon vinealis	E0	.	.	.	.	.	.	.	10

Legend / Legenda

AcPa *Astrantio carniolicae-Pinguiculetum alpinae* (Table 1)
PcAc *Palustriello commutati-Astrantietum carniolicae* (Table 3)
VbAc *Violo biflorae-Astrantietum carniolicae* (Table 2)
VuVb *Veronico urticifoliae-Violetum biflorae* (Table 8)
PcVu *Palustriello commutati-Veronicetum urticifoliae* (Table 4)
VuSc *Veronico urticifoliae-Saxifragetum cuneifolii* (Table 6)
CvAb *Calamagrostio variae-Asteretum bellidiastri* (Table 7)
CcSaac *Campanulo cespitosae-Saxifragetum aizoidis achnatheretosum calamagrostis* (Table 5)

Table 12 (Preglednica 12): ***Lamio orvalae-Lunarietum redivivae***

Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13
Database number of relevé (Delovna številka popisa)		238417	258452	287166	262939	262960	273872	285295	263213	274352	262914	268366	242769	248105
Elevation in m (Nadmorska višina v m)		630	370	450	150	240	430	350	620	440	310	224	225	430
Aspect (Lega)		N	N	SE	W	E	N	SE	NE	N	SE	N	S	NE
Slope in degrees (Nagib v stopinjah)		40	20	45	5	5	10	30	20	20	5	30	15	30
Parent material (Matična podlaga)		L	Deb	LMCh	Deb	Deb	Deb	Deb	Ta	Deb	Ro	Deb	Deb	Deb
Soil (Tla)		Co	Co	Co	Co	Co	Co	Co	Co	Co	Re	Co	Co	Co
Stoniness in % (Kamnitost v %)		30	60	20	10	20	80	80	60	40	20	10	20	80
Cover of shrub layer in % (Zastiranje grmovne plasti v %):		20	5	.	10	10	.	.	.	.	.	.	.	.
Cover of herb layer in % (Zastiranje zeliščne plasti v %):		90	60	70	80	70	70	70	70	50	80	70	80	80
Cover of moss layer in % (Zastiranje mahovne plasti v %):		10	.	20	.	10	20	20	30	20	.	40	.	30
Number of species (Število vrst)		19	12	13	24	21	30	31	28	20	9	19	24	14
Relevé area (Velikost popisne ploskve)	m^2	30	20	30	20	10	20	100	20	20	10	10	20	20
Date of taking relevé (Datum popisa)		8/9/2010	4/9/2015	8/11/2021	10/11/2016	10/11/2016	7/23/2018	4/9/2021	9/22/2016	4/20/2018	10/13/2016	8/22/2017	4/8/2012	5/1/2013
Locality (Nahajališče)		Mrzli potok	Avšček	Liščak-Sopot	Dobalrec	Dobalrec	Matevževa grapa-Idrija	Liščak	Žaga-Sušec	Stružnikarjeva grapa	Dobalrec	Široka draga-Bača	Zadlaščica-Medvedova glava	Pradol
Quadrant (Kvadrant)		9748/3	9948/1	9849/1	9848/3	9848/3	9847/2	9849/1	9746/2	9949/1	9848/3	9849/1	9748/3	9746/4
Coordinate GK Y (D-48)	m	397961	400782	411277	398788	398698	396457	410835	383289	414739	398606	409923	403514	380242
Coordinate GK X (D-48)	m	5121400	5103366	5117632	5109347	5110318	5113540	5116990	5128209	5104724	5111023	5113284	5118091	5121266
Diagnostic species of the associations (Diagnostične vrste asociacij)														
TA *Lunaria rediviva*	E1	4	4	4	4	4	3	4	4	3	4	4	4	4
FS *Galeobdolon flavidum*	E1	2	1	1	.	1	2	2	+	.	.	1	.	.
FS *Sambucus nigra*	E2a	+	+	+	r	+	+	.	+	+	.	.	+	+
TA *Phyllitis scolopendrium*	E1	+	1	+	2	3	2	2	1	+	.	2	1	1
AF *Lamium orvala*	E1	.	.	.	.	.	.	+	+	+	.	.	+	.
FS *Cardamine pentaphyllos*	E1	.	2	.	1	+	2	2	1	.	.	.	+	2
ML *Plagiomnium undulatum*	E0	1	.	.	+	.	1	+	3	+	.	.	.	1
ML *Thamnobryum alopecurum*	E0	.	.	.	.	.	1	1	+	1	2	3	1	1
MuA *Doronicum austriacum*	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
MuA *Adenostyles alliariae*	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
MuA *Cicerbita alpina*	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
MuA *Saxifraga rotundifolia*	E1	.	.	.	.	.	.	.	+	.	.	.	.	+
ArP ***Arunco-Petasition albi, Petasito-Chaerophylletalia***														
Senecio ovatus	E1	.	.	.	+	.	.	.	+	+	.	1	.	.
Chaerophyllum hirsutum	E1	+	.	.	.	.	.	.	1	.	.	.	.	.
Athyrium filix-femina	E1	.	.	.	.	.	.	.	r	+	.	.	.	.
Silene dioica	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
Milium effusum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
MuA ***Mulgedio-Aconitetea***														
Aconitum degenii subsp. *paniculatum*	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
Carduus personata	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
Myrrhis odorata	E1	.	.	.	.	.	.	.	.	.	.	.	.	.

14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Pr.	Fr.
248109	270153	247904	278246	242728	272378	248642	281091	255012	255015	281520	282764	282768	267745	272381	280890	285296	287179	246114	262232	258223	273364	274342	274699	264684	269590	248115		
475	200	280	105	225	527	410	575	240	270	470	570	555	390	500	500	350	350	1030	1050	815	463	385	440	450	1350	470		
0	N	S	NNE	W	SW	0	SEE	SW	SW	NNE	NW	N	NW	S	S	NW	SE	S	SW	E	NW	NE	0	NW	N	0		
0	25	5	10	20	10	0	5	25	40	35	60	50	45	60	10	45	60	20	30	5	5	40	0	10	40	0		
Deb	Deb	Deb	Deb	Deb	Deb	Gr	D	Deb	Deb	Ta	Deb	Deb	Deb	LCh	Deb	LMCh	LMCh	L	Deb	Gr	Gr	DChCl	Gr	Deb	L	Deb		
Co	Co	Co	Re	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Co	Re	Co	Co	Co	Eu	Co	Co	Re	Li		
60	80	100	20	30	10	20	30	40	80	10	20	20	90	100	20	30	20	70	10	10	20	5	10	30	10	30		
.	.	.	.	2	.	.	.	5	5	.	.	.	20	.	.	.	.	.	.	.	.	.	.	.	.	.		
80	70	70	100	70	95	95	100	70	80	80	80	80	70	50	70	70	80	70	100	100	80	70	60	70	100	70		
20	40	50	.	30	.	.	.	.	.	.	.	.	.	30	20	20	30	10	.	.	15	.	10	.	.	90		
20	20	16	26	18	36	18	19	16	21	24	22	23	17	19	33	18	10	23	17	37	45	18	11	26	16	39		
20	20	10	30	30	50	5	10	20	20	10	30	30	30	30	50	20	20	30	20	30	30	20	15	10	20	100		
5/1/2013	3/20/2017	4/18/2013	4/15/2019	4/1/2012	8/17/2018	6/12/2013	5/21/2020	4/7/2014	4/7/2014	3,6,2020	6/22/2020	6/22/2020	7/13/2017	8/17/2018	5/4/2020	4/9/2021	6/18/2021	5/18/2012	7/20/2016	6/5/2015	8/10/2018	4/20/2018	3/30/2019	7/6/2016	6/8/2017	7/16/2001		
Pradol	Zel potok	Raša-Globočak	Branik-Petnik	Ljubinj-Potočnica	Sevščkar-Sopota	Kobile	Vintgar	Branica-Trebižani	Branica-Trebižani	Kozjek	Vintgar	Vintgar	Volarja-Mrzlica	Sevščkar-Sopota	Kozjek-Vrše	Liščak	Liščak	Marni vrh	Kacenpoh-Skala	Pokljuška soteska	Prodarjeva grapa	Stružnik	Prodarjeva grapa	Vintgar	Črna gora-pl. za Liscem	Pradol		
9746/4	9947/1	0249/2	0148/2	9848/2	9848/2	0258/1	9650/2	0149/3	0149/3	9948/2	9650/2	9650/2	9748/3	9848/2	9948/2	9849/1	9849/1	0049/4	9749/4	9650/1	9849/2	9949/1	9849/2	9848/1	9749/4	9746/4		
380678	388838	415805	405986	404569	407983	527783	430075	415667	415740	408483	430273	430447	397417	407966	408472	410843	410894	418814	419950	425854	418783	414738	418702	397070	418503	380306		
5121040	5105270	5070844	5079494	5114535	5114980	5071508	5139335	5074343	5074166	5105406	5139588	5139733	5120488	5114926	5105413	5116982	5117047	5088991	5121568	5137306	5117545	5104904	5117629	5113244	5122491	5121266		
																											Pr.	Fr.
4	4	3	4	4	5	4	3	3	4	3	3	4	2	1	+	1	+	4	4	3	3	4	2	+	3	1	40	100
.	1	.	.	.	.	.	1	+	3	1	1	1	.	2	+	1	2	+	+	+	+	.	.	1	.	.	24	60
.	.	+	.	+	+	.	.	+	+	.	+	+	2	1	+	.	.	.	.	+	+	+	.	+	.	.	24	60
+	3	.	1	+	1	.	.	.	.	.	2	1	+	2	.	1	1	.	.	.	1	.	.	.	.	.	24	60
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	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13
	Geum rivale	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Stellaria nemorum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Aconitum lycoctonum	E1	.	.	.	.	.	.	.	.	.	.	.	+	.
	Veratrum album	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Rumex alpinus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Petasites hybridus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Senecio cacaliaster	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Aconitum angustifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
TG	***Trifolio-Geranietea***														
	Campanula rapunculoides	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Clinopodium vulgare	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Vincetoxicum hirundinaria	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
EA	***Epilobietea angustifolii***														
	Impatiens parviflora	E1	.	.	.	.	.	.	.	.	.	.	+	.	.
	Eupatorium cannabinum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Galeopsis speciosa	E1	+	.	.	.	.	1	.	.	.	.	.	.	.
	Solanum dulcamara	E1	+	.	.	.	.	.	.	.	.	.	.	.	.
	Rubus idaeus	E2a	.	.	.	.	.	.	.	.	.	.	.	.	.
	Fragaria vesca	E1	.	.	.	.	.	.	.	.	.	.	+	.	.
	Barbarea vulgaris	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Arctium nemorosum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Galeopsis pubescens	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Stachys sylvatica	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
MC	***Montio-Cardaminetea***														
	Conocephalum conicum	E0	+	.	+	1	1	.	.	+	1	.	1	.	.
	Cratoneuron filicinum	E0	.	.	+	.	.	.	.	.	.	.	.	.	.
	Oxyrrhynchium hians	E0	.	.	+	.	.	.	.	.	.	.	.	.	.
ES	***Elyno-Seslerietea***														
	Carex ferruginea	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Sesleria caerulea	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
Mo	***Molinion***														
	Caltha palustris	E1	.	.	.	.	.	1	.	.	.	.	.	.	+
	Angelica sylvestris	E1	.	.	.	.	.	+	+	.	.	.	.	.	.
	Cirsium oleraceum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Filipendula ulmaria	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
MA	***Molinio-Arrhenatheretea***														
	Anthriscus sylvestris	E1	.	.	.	1	.	.	.	.	.	.	.	.	.
	Geranium phaeum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
GU	***Galio-Urticetea, Stellarietea mediae***														
	Urtica dioica	E1	.	.	.	.	.	.	.	.	.	.	.	1	1
	Geum urbanum	E1	.	.	.	.	.	.	.	.	.	.	+	.	.
	Glechoma hederacea	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Lamium maculatum	E1	.	.	.	.	.	.	.	.	.	+	.	.	.
	Parietaria officinalis	E1	.	.	.	+	.	.	.	.	.	.	.	.	.
	Erigeron annuus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Impatiens glandulifera	E1	.	.	.	.	.	.	.	.	.	.	+	.	.
	Veronica chamaedrys	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Stellaria media	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
TR	***Thlaspietea rotundifolii***														
	Adenostyles glabra	E1	.	.	.	.	.	.	.	.	+	.	.	.	.
	Gymnocarpium dryopteris	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Gymnocarpium robertianum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Arabis alpina	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
AP	***Astrantio-Paederotion luteae***														
	Cystopteris fragilis	E1	+	.	.	.	+	.	.	+	.	.	.	.	.
	Fissidens dubius	E0	.	.	.	.	.	+	.	+	.	.	.	.	.
	Palustriella commutata	E0	.	.	1	.	.	.	.	.	.	.	.	.	.
	Astrantia carniolica	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Valeriana tripteris	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Apopellia endiviifolia (Pellia endiviifolia)	E0	.	.	.	+	.	.	.	.	.	.	.	.	.
	Paederota lutea	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Orthothecium rufescens	E0	.	.	.	.	.	.	.	.	.	.	.	.	.
	Viola biflora	E1	.	.	.	.	.	.	.	.	.	.	.	.	.

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	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13
AT	***Asplenietea trichomanis***														
	Asplenium trichomanes	E1	.	.	.	+	+	+	+	1	.	.	.	.	.
	Polypodium vulgare	E1	.	.	.	.	.	+	.	+	+	.	.	.	+
	Saxifraga petraea	E1	.	.	.	+	.	.	.	.	.	r	.	.	.
AI	***Alnion incanae***														
	Chrysosplenium alternifolium	E1	.	.	.	+	.	.	.	.	.	.	.	.	.
	Cardamine impatiens	E1	.	.	+	.	.	.	.	.	+	.	.	.	.
	Impatiens noli-tangere	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Festuca gigantea	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Rubus caesius	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Aesculus hippocastanum	E2a	.	.	.	.	.	.	.	.	.	.	.	.	.
	Matteuccia struthiopteris	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
TA	***Tilio-Acerion***														
	Geranium robertianum	E1	.	.	.	1	1	1	+	.	1	+	+	.	.
	Stellaria montana	E1	.	.	.	.	.	+	1	+	+	+	.	.	.
	Aruncus dioicus	E1	+	.	+	.	+	.	.	.	.	.	.	.	.
	Polystichum setiferum	E1	.	+	1	.	+	.	+	.	1	.	+	.	.
	Adoxa moschatellina	E1	.	1	.	.	.	.	+	.	.	.	.	1	.
	Acer pseudoplatanus	E2a	+	.	.	.	+	.	.	+	.	.	.	.	.
	Acer pseudoplatanus	E1	.	.	.	.	.	.	+	.	.	.	.	.	.
	Ulmus glabra	E1	.	r	.	+	+	.	+	.	.	.	.	.	.
	Arum maculatum	E1	.	+	.	.	.	.	.	.	.	.	.	1	1
	Polystichum aculeatum	E1	.	.	.	.	.	.	+	+	.	.	.	.	.
	Thalictrum aquilegiifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.	+
	Dryopteris affinis	E1	.	.	.	.	.	+	.	.	.	.	+	.	.
	Tephroseris pseudocrispa	E1	.	.	.	.	.	.	.	.	.	.	.	+	.
	Isopyrum thalictroides	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Circaea x intermedia	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Polystichum braunii	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Anthriscus nitida	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Polystichum x bicknellii	E1	.	.	.	.	.	+	.	.	.	.	.	.	.
	Corydalis solida	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Dryopteris remota	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Acer platanoides	E2a	.	.	.	.	.	.	.	.	.	.	.	.	.
	Hesperis candida	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Tephroseris longifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Cardamine flexuosa	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Veronica montana	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
EC	***Erythronio-Carpinion***														
	Galanthus nivalis	E1	.	.	.	.	.	.	+	.	.	.	.	2	.
	Helleborus odorus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Ornithogalum pyrenaicum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
AF	***Aremonio-Fagion***														
	Cardamine trifolia	E1	3	.	.	1	.	+	1	.	+	.	.	.	.
	Cardamine enneaphyllos	E1	.	.	.	.	.	.	.	.	+	.	.	.	.
	Anemone trifolia	E1	.	+	.	.	.	1	+	.	.	.	.	+	.
	Cyclamen purpurascens	E1	.	.	.	.	+	.	.	.	.	.	.	.	.
	Geranium nodosum	E1	.	.	.	.	+	.	.	.	.	+	.	+	.
	Scopolia carniolica	E1	.	.	.	.	.	.	.	.	.	.	2	.	.
	Euphorbia carniolica	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Daphne laureola	E2a	.	.	.	+	.	.	.	.	.	.	.	.	.
	Hacquetia epipactis	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Epimedium alpinum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Vicia oroboides	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Omphalodes verna	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
FS	***Fagetalia sylvaticae***														
	Salvia glutinosa	E1	.	.	.	.	.	.	.	1	.	.	+	.	.
	Dryopteris filix-mas	E1	+	.	.	.	.	1	.	.	+	.	.	.	.
	Asarum europaeum subsp. *caucasicum*	E1	+	.	.	.	.	.	+	.	.	+	+	1	.
	Brachypodium sylvaticum	E1	.	.	+	+	.	.	+	.	.	.	+	.	.
	Corydalis cava	E1	.	.	.	.	.	.	.	.	.	.	.	2	3
	Mycelis muralis	E1	.	+	.	.	.	+	.	+	.	.	.	.	.

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	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13
	Fraxinus excelsior	E2a	1	.	.	.	+	.	.	.	.	.	.	.	.
	Petasites albus	E1	.	.	.	.	.	.	+	.	.	.	.	.	.
	Dentaria bulbifera	E1	.	.	.	.	.	.	+	.	.	.	.	.	.
	Circaea lutetiana	E1	.	.	.	.	.	.	.	r	.	.	.	.	.
	Symphytum tuberosum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mercurialis perennis	E1	.	.	.	.	.	.	.	+	.	.	.	1	.
	Allium ursinum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Pulmonaria officinalis	E1	.	.	.	.	.	.	.	.	.	.	.	+	.
	Fagus sylvatica	E3	.	.	.	.	.	.	.	.	.	.	.	.	.
	Fagus sylvatica	E1	.	.	.	.	.	.	+	.	.	.	.	.	.
	Festuca altissima	E1	.	.	.	.	1	.	.	.	.	.	.	.	.
	Galium laevigatum	E1	.	.	.	.	.	.	+	.	.	.	.	.	.
	Ranunculus lanuginosus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Actaea spicata	E1	+	.	.	.	.	.	.	.	.	.	.	.	.
	Myosotis sylvatica	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Phyteuma spicatum subsp. *coeruleum*	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Epilobium montanum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Scrophularia nodosa	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Tilia cordata	E1	.	.	.	r	.	.	.	.	.	.	.	.	.
	Lathyrus vernus	E1	.	.	.	.	.	.	.	.	.	.	.	+	.
	Leucojum vernum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Galeobdolon montanum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Carex sylvatica	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Euphorbia dulcis	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Polygonatum multiflorum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Galium odoratum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Luzula nivea	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
QP	***Quercetalia pubescenti-petraeae***														
	Ruscus aculeatus	E1	.	.	.	1	+	.	.	.	.	.	.	.	.
	Arabis turrita	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Inula conyza	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
QP	***Querco-Fagetea***														
	Hedera helix	E1	.	.	.	.	+	+	+	.	.	.	+	+	.
	Aegopodium podagraria	E1	.	.	.	+	.	1	.	.	.	.	+	+	.
	Clematis vitalba	E1	.	.	.	.	.	.	+	.	.	.	.	.	.
	Ficaria verna	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Anemone nemorosa	E1	.	.	.	.	.	1	.	.	.	.	.	.	.
	Carex digitata	E1	.	.	.	.	.	+	.	.	.	+	.	.	.
	Corylus avellana	E2a	.	.	.	r	.	.	.	.	.	.	.	.	.
	Lathraea squamaria	E1	.	.	.	.	.	.	.	.	.	.	.	+	.
	Moehringia trinervia	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Dactylis polygama	E1	.	.	.	r	.	.	.	.	.	.	.	.	.
	Hepatica nobilis	E1	.	.	.	.	.	+	.	.	.	.	.	.	.
	Paris quadrifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Acer campestre	E2a	.	.	.	.	.	.	.	.	.	.	.	.	.
	Acer campestre	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Anemone ranunculoides	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Cerastium sylvaticum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Gagea lutea	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Vinca minor	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Viola riviniana	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Rubus hirtus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Veratrum nigrum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
RP	***Rhamno-Prunetea***														
	Cornus sanguinea	E2a	.	.	.	.	.	.	.	.	.	.	.	.	.
	Rubus fruticosus agg.	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
EP	***Erico-Pinetea***														
	Cirsium erisithales	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Calamagrostis varia	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Molinia arundinacea	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Vaccinio-Piceetea														
	Oxalis acetosella	E1	+	+	.	1	.	1	+	+	+	.	.	.	.

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	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13
	Veronica urticifolia	E1	.	.	.	.	+	.	+	.	.	.	.	.	.
	Saxifraga cuneifolia	E1	.	.	.	.	.	+	.	.	.	.	.	.	.
	Aposeris foetida	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Calamagrostis arundinacea	E1	+	.	.	.	.	.	.	.	.	.	.	.	.
	Phegopteris connectilis	E1	.	.	.	.	.	.	.	+	.	.	.	.	.
	Dryopteris dilatata	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Luzula luzuloides	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
	Clematis alpina	E1	.	.	.	.	.	.	.	.	.	.	.	.	.
ML	**Mosses (Mahovi)**														
	Ctenidium molluscum	E0	.	.	.	.	+	1	.	+	1	.	.	.	.
	Brachythecium rutabulum	E0	.	.	.	.	.	.	1	.	.	.	.	1	2
	Isothecium alopecuroides	E0	.	.	.	.	.	1	.	.	.	.	.	+	.
	Exertotheca crispa (Neckera crispa)	E0	.	.	.	.	.	.	.	+	.	.	.	.	.
	Schistidium apocarpum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.
	Eurhynchium zetterstedtii	E0	.	.	.	.	.	.	1	.	.	.	.	.	.
	Sciuro-hypnum populeum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.
	Plagiomnium rostratum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.
	Pseudanomodon attenuatus (Anomodon attenuatus)	E0	.	.	.	.	.	.	.	.	.	.	.	.	.
	Didymodon insulanus	E0	.	.	.	.	.	.	.	.	.	.	.	.	.
	Hygrohypnum luridum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.
	Plasteurhynchium striatulum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.
	Rhynchostegium murale	E0	.	.	.	.	.	.	.	.	.	.	.	.	.
	Schistidium crassifolium	E0	.	.	.	.	.	.	.	.	.	.	.	.	.
	Rhytidiadelphus loreus	E0	.	.	.	.	.	.	.	.	.	.	.	.	.
	Hylocomiadelphus triquetrus (Rhytidiadelphus triquetrus)	E0	.	.	.	.	.	.	.	.	.	.	.	.	.
	Hylocomium splendens	E0	.	.	.	.	.	.	.	.	.	.	.	.	.
	Rhizomnium punctatum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.
	Peltigera sp.	E0	.	.	.	.	.	.	.	.	.	.	.	.	.
	Plagiochila porelloides	E0	.	.	.	.	.	.	.	.	.	.	.	.	.
	Sanionia uncinata	E0	.	.	.	.	.	.	.	.	.	.	.	.	.

Legend - Legenda

L Limestone - apnenec
Ch Chert - roženec
D Dolomite - dolomit
Deb Debris - grušč
Gr Gravel - prod
M Marlstone - laporovec
Ro Rockslide - podorno gradivo
Ta Talus - vršaj
Co Colluvial-deluvial soil - koluvialno-deluvialna tla
Eu Eutric brown soil - evtrična rjava tla
Re rendzina - rendzina
Li Lithosol - kamnišče
Pr. Presence (number of relevés in which the species is presented) - število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % - frekvenca v %
1-38 *Lamio orvalae-Lunarietum redivivae*
39 *Doronico austriaci-Adenostyletum alliariae lunarietosum redivivae*
40 *Lunario redivivae-Saxifragetum rotundifoliae* nom. prov.

14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Pr.	Fr.
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Table 13 (Preglednica 13): ***Lamio orvalae-Sambucetum nigrae lunarietosum redivivae***

			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
	Database number of relevé (Delovna številka popisa)		248415	248416	249067	268269	281618	282737	258453	260838	260842	261426	261429	258459	258460	260840	260844	260845	260847	260937	285376	285839	284764	284765	280014	280015	264505		
	Elevation in m (Nadmorska višina v m)		760	750	765	780	590	570	370	370	370	360	380	360	350	370	545	545	530	550	310	230	260	255	510	500	125		
	Aspect (Lega)		N	NW	E	E	NW	NW	N	NE	NE	NE	N	W	NW	NW	N	NE	N	NW	NE	NE	NW	NE	SE	SE	NE		
	Slope in degrees (Nagib v stopinjah)		35	35	10	15	35	25	25	35	25	25	35	20	30	30	40	30	35	30	15	10	30	30	10	5	10		
	Parent material (Matična podlaga)		M	M	Ss	L	Deb	Deb	Deb	LM	LM	Deb	Deb	LM	LM	LM	LM	LM	LM	Deb	L	Deb	Deb	Deb	Ro	Ro	Fl		
	Soil (Tla)		CC	CC	Eu	Co	Co	Co	Co	CC	CC	Co	Co	Eu	Eu	Eu	CC	Co	CC	Co	Co	Co	Co	Co	Co	Co	Eu		
	Stoniness in % (Kamnitost v %)		0	0	0	10	40	30	60	10	10	20	30	5	5	0	10	10	10	5	30	40	70	70	70	50	20		
	Cover of treee layer in % (Zastiranje drevesne plasti v %):		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	15	.	.	.	.	.	.	10		
	Cover of shrub layer in % (Zastiranje grmovne plasti v %):		60	80	80	80	50	50	70	90	80	80	80	60	70	80	80	70	80	60	70	40	70	70	70	70	70		
	Cover of herb layer in % (Zastiranje zeliščne plasti v %):		70	60	50	70	100	90	40	70	70	70	70	70	40	70	50	60	60	80	80	70	70	60	60	50	90		
	Cover of moss layer in % (Zastiranje mahovne plasti v %):		.	.	.	10	15	.	.	5	10	50	40	.	.	10	.	5	5	5	30	20	40	30	20	20	.		
	Number of species (Število vrst)		25	33	21	44	35	33	23	27	40	40	47	27	28	33	33	27	32	40	25	40	24	20	34	26	41		
	Relevé area (Velikost popisne ploskve)	m^2	100	100	100	100	30	50	50	50	50	50	50	100	50	50	50	50	50	100	60	4	40	40	100	100	100		
	Date of taking relevé (Datum popisa)		5/21/2013	5/21/2013	7/10/2013	9/4/2017	5/21/2020	6/22/2020	4/9/2015	4/4/2016	4/4/2016	4/11/2016	4/11/2016	4/9/2015	4/9/2015	4/4/2016	4/4/2016	4/4/2016	4/4/2016	4/15/2016	4/15/2021	5/13/2021	3/17/2021	3/17/2021	4/13/2020	4/13/2020	4/12/2016		
	Locality (Nahajališče)		Donačka gora	Donačka gora	Donačka gora	Zapoška grapa	Vintgar	Vintgar	Avšček	Avšček	Avšček	Avšček	Avšček	Avšček	Avšček	Avšček	Avšček	Avšček	Avšček	Žirovnica-Raskovec	Postaja-Pekel	Slap ob Idrijci-Vrata	Svino	Svino	Zadlaščica-Kašana	Zadlaščica-Kašana	Korte-Branski bošk		
	Quadrant (Kvadrant)		9760/1	9760/1	9760/2	9849/2	9650/2	9650/2	9948/1	9948/1	9948/1	9948/1	9948/1	9948/1	9948/1	9948/1	9948/1	9948/1	9948/1	9950/4	9848/4	9848/4	9747/3	9747/3	9748/4	9748/4	0548/1		
	Coordinate GK Y (D-48)	m	557450	557498	558289	421229	430213	430228	400794	400763	400842	400483	400490	400794	400790	400815	400728	400669	400710	430471	404710	408441	390120	390097	406223	406147	395989		
	Coordinate GK X (D-48)	m	5124660	5124689	5124846	5113779	5139509	5139520	5103353	5103391	5103287	5103648	5103603	5103484	5103563	5103410	5103047	5103056	5103059	5096318	5111479	5107856	5122874	5122892	5120614	5120541	5039051		
	Diagnostic species of the association (Diagnostične vrste asociacije)																											Pr.	Fr.
FS	*Sambucus nigra*	E2b	4	4	4	4	3	3	4	5	5	4	4	2	4	4	4	4	5	3	4	3	4	4	4	4	3	25	100
FS	*Sambucus nigra*	E2a	+	+	.	.	.	.	.	1	+	.	+	.	.	.	1	.	.	+	.	1	.	.	1	+	.	10	40
FS	*Sambucus nigra*	E1	.	.	.	.	.	.	+	1	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	3	12
AF	*Lamium orvala*	E1	.	.	.	1	2	2	+	1	1	.	+	2	1	+	+	+	+	+	1	3	.	.	3	2	.	18	72
TA	*Phyllitis scolopendrium*	E1	1	.	.	1	2	1	1	1	1	2	2	1	1	.	.	.	.	+	1	1	4	3	1	2	.	18	72
TA	*Geranium robertianum*	E1	+	1	+	1	1	.	+	.	.	1	1	.	.	.	+	+	+	1	+	1	+	.	1	.	.	16	64

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Pr.	Fr.
	Differential species of subassociation and variants (Razlikovalne vrste subasociacije in variant)																												
TA	*Lunaria rediviva*	E1	3	2	2	1	4	4	3	2	2	4	3	2	.	1	1	+	+	1	2	.	2	1	.	.	.	20	80
FS	*Circaea lutetiana*	E1	1	1	.	1	+	1	1	+	+	.	+	.	+	.	.	+	.	.	+	.	.	.	.	1	.	13	52
FS	*Cardamine pentaphyllos*	E1	.	.	.	.	2	1	1	3	3	3	.	1	.	.	1	1	2	2	1	.	.	.	.	r	.	13	52
	Geografska razlikovalna vrsta																												
AF	*Anemone trifolia*	E1	.	.	.	.	.	.	+	+	1	1	1	+	+	1	+	+	.	.	+	+	+	+	+	.	.	15	60
	Razlikovalnice nižjih enot																												
GU	*Urtica dioica* (inc. *U. galeopsifolia*)	E1	2	3	1	2	1	2	.	.	.	.	+	.	.	.	.	.	.	.	+	+	.	.	2	2	2	12	48
AI	*Impatiens noli-tangere*	E1	1	2	.	+	1	1	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	6	24
MuA	*Milium effusum*	E1	.	1	+	.	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4	16
FS	*Fraxinus excelsior*	E3b	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	1	4
FS	*Fraxinus excelsior*	E2a	.	.	.	.	.	.	.	+	+	+	+	+	.	+	.	.	.	.	.	.	.	.	.	.	.	6	24
AF	*Cardamine trifolia*	E1	.	.	.	.	.	.	1	+	+	+	+	1	+	.	.	.	.	.	.	.	.	.	.	.	.	7	28
TA	*Tilia platyphyllos*	E2	.	.	.	.	.	.	r	+	+	+	+	.	.	.	.	.	r	.	.	.	.	.	.	.	.	6	24
AF	*Scopolia carniolica*	E1	.	.	.	1	.	.	.	.	+	.	.	.	.	.	3	3	3	4	4	3	.	.	.	.	.	8	32
FS	*Leucojum vernum*	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4	3	.	.	.	2	8
TR	*Adenostyles glabra*	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	+	.	3	12
EC	*Primula vulgaris*	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	3	2	8
QP	*Ruscus aculeatus*	E2a	.	.	.	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	3	2	8
TA	***Tilio-Acerion***																												
	Acer pseudoplatanus	E3a	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	4
	Acer pseudoplatanus	E2	r	.	1	1	1	1	.	+	1	+	+	1	1	+	.	.	.	.	.	.	.	1	+	.	.	14	56
	Acer pseudoplatanus	E1	.	.	.	.	.	.	.	.	1	.	+	.	+	.	+	+	+	.	.	+	.	.	.	.	.	7	28
	Arum maculatum	E1	1	1	.	1	.	.	1	1	.	.	.	+	+	+	.	.	+	.	.	.	2	1	.	.	1	12	48
	Ulmus glabra	E3b	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	1	4
	Ulmus glabra	E2	r	+	+	.	.	.	1	+	1	+	.	3	1	.	.	.	.	+	.	+	.	.	.	.	.	11	44
	Polystichum aculeatum	E1	r	+	.	.	1	+	.	.	.	.	.	.	.	+	.	.	+	+	.	+	1	.	+	1	.	11	44
	Aruncus dioicus	E1	.	+	.	.	.	+	.	.	+	.	+	.	.	+	+	+	+	+	.	.	.	.	.	.	.	9	36
	Polystichum setiferum	E1	+	.	.	+	.	.	2	.	2	.	+	+	1	1	.	.	.	.	.	.	.	.	.	.	.	8	32
	Dryopteris affinis	E1	.	+	.	+	+	.	.	.	+	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	+	6	24
	Stellaria montana	E1	.	.	.	+	.	1	.	.	+	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	5	20
	Adoxa moschatellina	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	+	+	+	.	.	4	16
	Polystichum braunii	E1	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	+	+	.	.	.	3	12
	Acer platanoides	E2	+	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	8
	Euonymus latifolia	E2	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	2	8
	Circaea x intermedia	E1	.	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	8
	Tephroseris pseudocrispa	E1	.	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	8
	Polystichum x luerssenii	E1	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	2	8
	Juglans regia	E2	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	2	8
	Acer platanoides	E1	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Hesperis candida	E1	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Anthriscus nitida	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Thalictrum aquilegiifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	1	4
AI	***Alnion incanae***																												
	Chrysosplenium alternifolium	E1	.	.	.	.	1	+	.	.	.	.	1	.	.	.	.	.	.	.	1	.	.	+	.	.	.	5	20
	Cardamine impatiens	E1	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	8

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Pr.	Fr.
	Viburnum opulus	E2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	1	4
	Arum italicum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
	Carex pendula	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
	Equisetum telmateia	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
AF	***Aremonio-Fagion***																												
	Cyclamen purpurascens	E1	.	.	.	.	.	.	.	.	+	+	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	4	16
	Cardamine enneaphyllos	E1	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	+	.	.	.	.	.	3	12
	Omphalodes verna	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	2	8
	Hacquetia epipactis	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	+	.	.	.	.	.	2	8
	Geranium nodosum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	+	.	.	.	.	.	2	8
	Vicia oroboides	E1	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Helleborus niger	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	1	4
EC	***Erythronio-Carpinion***																												
	Galanthus nivalis	E1	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	2	8
	Helleborus odorus	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	2	8
	Lonicera caprifolium	E2a	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
FS	***Fagetalia sylvaticae***																												
	Salvia glutinosa	E1	+	1	+	+	+	+	.	.	.	.	+	.	.	.	+	+	+	.	+	1	.	.	1	+	2	15	60
	Galeobdolon flavidum	E1	.	.	.	.	1	1	1	.	+	1	1	+	+	.	1	+	+	+	.	1	.	.	+	.	.	14	56
	Fagus sylvatica	E2a	+	+	.	1	.	.	.	r	.	.	+	1	+	.	r	.	r	.	.	+	.	.	.	+	.	11	44
	Fagus sylvatica	E1	.	+	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	+	+	.	.	.	.	.	4	16
	Dryopteris filix-mas	E1	2	1	1	1	.	1	.	+	+	+	.	.	.	.	+	.	.	.	.	1	.	.	.	+	.	11	44
	Mercurialis perennis	E1	1	1	+	.	.	.	.	.	+	1	.	.	+	.	.	.	.	.	.	.	+	+	.	+	3	10	40
	Asarum europaeum subsp. *caucasicum*	E1	.	.	.	.	.	.	+	.	+	+	1	.	+	1	.	.	.	.	.	+	.	.	+	1	.	9	36
	Galium laevigatum	E1	.	.	.	.	.	.	.	.	.	1	+	+	.	+	+	+	+	.	.	+	.	.	+	.	.	9	36
	Galium odoratum	E1	+	+	1	1	.	.	.	+	.	.	.	+	+	2	.	+	.	.	.	.	.	.	.	.	.	9	36
	Symphytum tuberosum	E1	+	+	+	.	.	.	.	.	.	.	+	.	+	+	+	+	.	.	.	.	.	.	.	.	1	9	36
	Cardamine bulbifera	E1	.	+	2	.	.	.	.	1	.	.	+	3	+	2	.	.	.	.	1	.	.	.	.	.	.	8	32
	Mycelis muralis	E1	.	+	.	.	.	.	+	.	.	.	1	.	.	.	+	+	+	.	.	.	.	.	+	+	.	8	32
	Petasites albus	E1	.	.	.	+	.	.	.	+	+	.	.	1	2	3	.	.	1	.	.	.	.	.	.	.	.	7	28
	Festuca altissima	E1	+	+	.	+	.	.	r	.	.	+	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	6	24
	Ranunculus lanuginosus	E1	.	.	.	.	3	1	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	+	+	.	.	5	20
	Actaea spicata	E1	.	.	.	.	+	.	.	+	.	+	+	.	.	.	.	.	+	.	.	.	.	.	.	.	.	5	20
	Polygonatum multiflorum	E1	+	.	.	.	.	.	.	.	+	.	.	+	.	+	.	.	.	.	.	.	.	.	.	.	.	4	16
	Pulmonaria officinalis	E1	.	.	.	.	.	.	.	+	.	.	.	+	+	.	.	.	.	.	.	+	.	.	.	.	.	4	16
	Viola reichenbachiana	E1	.	.	.	.	.	.	.	.	+	.	+	.	+	+	.	.	.	.	.	.	.	.	.	.	.	4	16
	Scrophularia nodosa	E1	.	+	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	3	12
	Lathyrus vernus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	.	+	3	12
	Corydalis cava	E1	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	.	.	.	.	.	2	8
	Brachypodium sylvaticum	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	2	8
	Myosotis sylvatica	E1	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	2	8
	Laburnum alpinum	E2	.	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	8
	Paris quadrifolia	E1	.	.	.	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	8
	Sanicula europaea	E1	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	2	8
	Carex sylvatica	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	+	2	8
	Euphorbia dulcis	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	+	2	8

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Pr.	Fr.
	Daphne mezereum	E2a	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	+	.	2	8
	Allium ursinum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	1	2	8
	Lathyrus vernus subsp. *flaccidus*	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	+	.	2	8
	Campanula trachelium	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Epilobium montanum	E1	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Melica nutans	E1	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Lonicera alpigena	E2a	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	1	4
	Phyteuma spicatum subsp. *coeruleum*	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	1	4
	Euphorbia amygdaloides	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
QP	***Quercetalia pubescenti-petraeae***																												
	Ostrya carpinifolia	E2	.	.	.	.	.	+	.	.	+	1	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4	16
	Sesleria autumnalis	E1	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	+	.	.	.	.	.	.	.	.	+	.	3	12
	Arabis turrita	E1	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	2	8
	Hypericum montanum	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Cornus mas	E2a	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Lathyrus venetus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Asparagus tenuifolius	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	1	4
	Asparagus acutifolius	E2a	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
	Carex flacca	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
	Fraxinus ornus	E2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
	Helleborus multifidus subsp. *istriacus*	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
	Orchis purpurea	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	r	1	4
	Tamus communis	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
QF	***Querco-Fagetea***																												
	Aegopodium podagraria	E1	.	.	2	+	1	1	.	.	.	.	+	+	.	2	.	.	.	+	.	+	1	+	.	.	.	11	44
	Hedera helix	E1	.	.	.	.	.	.	+	.	+	+	+	+	+	+	+	.	+	.	+	.	.	.	.	.	1	11	44
	Carex digitata	E1	.	.	.	.	.	.	r	.	.	+	.	+	.	+	+	+	.	.	.	.	.	.	.	+	+	+	9	36
	Clematis vitalba	E2a	.	.	.	.	.	+	.	.	+	.	+	.	+	+	+	.	+	.	.	1	.	.	.	.	.	+	9	36
	Rubus hirtus	E2a	.	.	+	.	.	.	.	.	+	.	.	.	1	1	+	.	.	.	.	.	+	.	.	+	.	7	28
	Anemone nemorosa	E1	.	.	+	.	.	.	.	.	1	.	.	.	1	.	+	.	.	.	+	.	.	+	.	.	.	6	24
	Corylus avellana	E2a	.	.	.	1	.	.	.	+	.	.	.	.	.	.	.	.	.	+	.	+	.	.	.	.	+	5	20
	Ranunculus ficaria	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	+	+	.	.	1	4	16
	Hepatica nobilis	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	+	+	+	.	.	.	4	16
	Anemone ranunculoides	E1	.	.	.	.	.	.	.	+	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	8
	Acer campestre	E2b	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	+	2	8
	Cerastium sylvaticum	E1	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	2	8
	Pyrus pyraster	E2a	.	r	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Carpinus betulus	E2a	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Veratrum nigrum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	1	4
	Lonicera xylosteum	E2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	1	4
	Pteridium aquilinum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	1	4
	Acer campestre	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
EP	***Erico-Pinetea***																												
	Cirsium erisithales	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	1	4
	Buphthalmum salicifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	1	4

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Pr.	Fr.
VP	***Vaccinio-Piceetea***																												
	Oxalis acetosella	E1	+	.	.	.	.	.	+	.	+	+	1	1	1	1	.	+	+	+	.	+	.	.	+	+	.	14	56
	Veronica urticifolia	E1	.	.	.	.	+	.	.	.	.	.	+	.	.	.	.	.	+	+	.	.	.	.	.	.	.	4	16
	Calamagrostis arundinacea	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	+	+	+	.	.	.	.	.	.	.	.	.	3	12
	Solidago virgaurea	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	+	.	3	12
	Saxifraga cuneifolia	E1	.	.	.	.	.	.	.	.	.	+	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	2	8
	Luzula luzuloides	E1	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Luzula pilosa	E1	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Picea abies	E2a	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	1	4
	Rosa pendulina	E2a	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	1	4
RP	***Rhamno-Prunetea***																												
	Rubus fruticosus agg.	E2a	.	.	.	.	.	.	.	+	.	+	+	.	.	.	.	+	.	.	.	.	.	.	.	.	.	4	16
	Euonymus europaea	E2a	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Sorbus aucuparia	E2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	1	4
	Robinia pseudoacacia	E2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	4
	Crataegus monogyna	E2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
	Ligustrum vulgare	E2a	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
	Ficus carica	E2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
BA	***Betulo-Alnetea***																												
	Salix appendiculata	E2a	.	.	.	+	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	8
MuA	***Mulgedio-Aconitetea***																												
	Athyrium filix-femina	E1	1	+	1	.	.	.	.	+	+	+	+	+	+	1	+	+	+	.	.	.	.	.	.	.	.	13	52
	Senecio ovatus	E1	+	.	1	1	+	1	.	.	.	.	+	.	.	+	+	1	1	+	.	.	.	.	.	1	+	.	13	52
	Aconitum degenii subsp. *paniculatum*	E1	.	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	+	.	+	.	.	.	.	.	.	4	16
	Doronicum austriacum	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	2	8
	Saxifraga rotundifolia	E1	.	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	8
	Veratrum album	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	1	.	.	.	.	.	.	2	8
	Petasites hybridus	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Chaerophyllum hirsutum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	1	4
	Aconitum lycoctonum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	1	4
EA	***Epilobietea angustifolii***																												
	Rubus idaeus	E2a	.	+	+	+	.	.	.	.	.	.	.	.	.	.	+	+	1	.	.	.	.	.	.	.	+	.	7	28
	Hypericum hirsutum	E1	.	.	.	.	+	+	.	.	.	.	+	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	4	16
	Atropa bella-donna	E1	.	1	.	+	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	3	12
	Eupatorium cannabinum	E1	.	.	.	+	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	8
	Stachys sylvatica	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	.	2	8
	Bromopsis benekenii	E1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Solanum dulcamara	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Stachys alpina	E1	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Arctium nemorosum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	1	4
	Cirsium arvense	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	1	4
	Tussilago farfara	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	1	4
TG	***Trifolio-Geranietea***																												
	Verbascum lanatum	E1	.	r	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Lilium carniolicum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	1	4

	Successive number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Pr.	Fr.
GU	***Galio-Urticetea***																												
	Alliaria petiolata	E1	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Lamium maculatum	E1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Cardamine hirsuta	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
	Chelidonium majus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
	Erigeron annuus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
MA	***Molinio-Arrhenatheretea***																												
	Angelica sylvestris	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	+	+	.	.	.	3	12
	Taraxacum sect. *Ruderalia*	E1	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	2	8
	Caltha palustris	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	1	4
TR	***Thlaspietea rotundifolii***																												
	Gymnocarpium robertianum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	1	4
AT	***Asplenietea trichomanis***																												
	Asplenium trichomanes	E1	.	.	.	+	.	.	.	.	.	.	+	.	.	.	+	.	.	.	.	+	.	.	+	.	.	5	20
	Polypodium vulgare	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	+	+	.	3	12
	Valeriana tripteris	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	+	.	.	2	8
	Cystopteris fragilis	E1	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Saxifraga petraea	E1	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Moehringia muscosa	E1	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Parietaria judaica	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
ML	**Mosses (Mahovi)**																												
	Thamnobryum alopecurum	E0	.	.	.	.	.	.	1	1	1	3	.	.	.	.	.	.	.	.	2	.	1	2	+	.	2	9	36
	Isothecium alopecuroides	E0	.	.	.	+	.	.	.	.	.	1	1	.	.	.	.	.	.	.	1	.	2	.	2	1	.	7	28
	Plagiomnium undulatum	E0	.	.	.	.	1	1	.	.	+	1	.	.	.	.	.	.	.	+	.	2	.	.	.	.	.	6	24
	Ctenidium molluscum	E0	.	.	.	.	.	.	.	.	.	+	1	.	.	.	.	.	.	.	.	1	+	.	2	.	.	5	20
	Conocephalum conicum	E0	.	.	.	.	1	1	.	.	.	.	+	.	.	.	.	.	.	+	.	.	.	.	.	.	.	4	16
	Exertotheca crispa (Neckera crispa)	E0	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	2	.	.	1	1	.	4	16
	Brachythecium rutabulum	E0	.	.	.	.	.	.	.	.	.	1	.	.	.	+	.	.	.	.	.	.	.	2	.	.	.	3	12
	Polytrichum formosum	E0	.	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	+	.	.	.	.	3	12
	Atrichum undulatum	E0	.	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	2	8
	Fissidens dubius	E0	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	2	8
	Pseudanomodon attenuatus (Anomodon attenuatus)	E0	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	+	2	8
	Fissidens taxifolius	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	1	.	.	.	.	.	.	.	.	.	2	8
	Eurhynchium angustirete	E0	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Thuidium tamariscinum	E0	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
	Hypnum cupressiforme	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	1	4
	Homalothecium lutescens	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	1	4
	Schistidium apocarpum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	1	4

Legend - Legenda

L Limestone - apnenec
Ch Chert - roženec
Deb Debris - grušč
Fl Flysch - fliš
Gr Gravel - prod

Successive number of relevé (Zaporedna številka popisa)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Pr.	Fr.

M Marlstone - laporovec
Ro Rockslide - podorno gradivo
Ss Sandstone - peščenjak
CC Chromic Cambisols - rjava pokarbonatna tla
Co Colluvial-deluvial soil - koluvialno-deluvialna tla
Eu Eutric brown soil - evtrična rjava tla
Re rendzina - rendzina
Li Lithosol - kamnišče
Pr. Presence (number of relevés in which the species is presented) - število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % - frekvenca v %